



California Alternative Energy and Advanced Transportation Financing Authority

Investing in communities and the green
economy

2018 Annual Report to the California State Legislature

March 2019

About CAEATFA:

The California Alternative Energy and Advanced Transportation Financing Authority (CAEATFA or the Authority) was established to advance the state's goals of reducing greenhouse gas emissions, increasing the deployment of sustainable and renewable energy sources, implementing measures that increase the efficiency of the use of energy, creating high quality employment opportunities, and lessening the state's dependence on fossil fuels. CAEATFA works towards these goals, by strategically targeting public funds to leverage private capital investment and spur market transformation.

CAEATFA has developed and is currently implementing various programs, including:

- **Sales and Use Tax Exclusion Program for Manufacturers** – incentivizing manufacturers to grow in California, it provides a sales and use tax exclusion (STE) on equipment and machinery used in an Advanced Manufacturing process; for the “design, manufacture, production or assembly” of advanced transportation technologies or alternative source products, components or systems; or to process or utilize recycled feedstock.
- **California Hub for Energy Efficiency Financing Pilot Programs** – implementing a series of programs designed to leverage private capital to help customers of the state's investor-owned utilities obtain lower-cost financing for energy efficiency retrofits. This program is being administered in collaboration with the California Public Utilities Commission (CPUC).
- **Property Assessed Clean Energy Loss Reserve Program** – supports residential Property Assessed Clean Energy (PACE) programs by addressing concerns raised by the Federal Housing Finance Agency (FHFA) regarding risk to federal mortgage enterprises from PACE financings. The PACE Loss Reserve Program will reimburse first mortgage lenders for specified losses resulting from a PACE lien on a property during foreclosure or forced sale to collect unpaid property taxes.
- **Bond Program** – provides lower-cost bond financing for eligible projects, which have most recently included Qualified Energy Conservation Bonds (QECBs) and Clean Renewable Energy Bonds (CREBs). As the primary energy bond conduit issuer for the State of California, CAEATFA continues to work with stakeholders on developing innovative approaches to financing gaps.

The CAEATFA Board consists of:

Fiona Ma, CPA, Chair
State Treasurer

Betty T. Yee
State Controller

Keely Martin Bosler
Director, Department of Finance

David Hochschild
Chair, California Energy Commission

Michael Picker
President, California Public Utilities Commission

Overview of 2018 Annual Report

In accordance with the provisions of Section 26017 of the Public Resources Code, CAEATFA respectfully submits its Annual Report on program activities for the calendar year ending December 31, 2018.

This Annual Report contains information on the Authority's revenues and expenditures for fiscal year 2017-18 and projections of the Authority's need for the coming fiscal year. The report also includes an overview of activity under the Sales and Use Tax Exclusion (STE) Program, and the California Hub for Energy Efficiency Financing (CHEEF), Property Assessed Clean Energy (PACE) Loss Reserve Program, and CAEATFA's Bond Program.

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SALES AND USE TAX EXCLUSION (STE) PROGRAM FOR MANUFACTURERS

Program Summary

CAEATFA awards \$100 million in Sales and Use Tax Exclusion annually to certain manufacturers, to assist them in purchasing machinery and equipment to retain and expand high-end manufacturing across the State – growing jobs, our regions and communities, and the green economy.

Legislative Background

In March 2010, Senate Bill 71 (Padilla, Chapter 10, Statutes of 2010) directed CAEATFA to implement the Sales and Use Tax Exclusion Program (STE Program). The legislation authorized CAEATFA to approve eligible projects for a sales and use tax exclusion (STE) on equipment and machinery (Qualified Property) used for the “design, manufacture, production, or assembly” of either advanced transportation technologies or alternative energy source products, components or systems, as defined. The purpose of this program is twofold: to promote the creation of California-based manufacturing jobs that will stimulate the California economy and to incentivize the manufacturing of green technologies that will help reduce greenhouse gases, as well as reductions in air and water pollution or energy consumption.

CAEATFA launched the STE Program in the fourth quarter of 2010; the CAEATFA Board approved the first eight applications for the program at its November 2010 meeting.

Inclusion of Advanced Manufacturing Projects

In September 2012, Senate Bill 1128 (Padilla, Chapter 677, Statutes of 2012) expanded the STE Program to include Advanced Manufacturing projects. The legislation also placed an annual limit of \$100 million in STE awards for each calendar year. The Authority modified its regulations to accommodate the statutory changes and began

Eligible Manufacturers

ADVANCED TRANSPORTATION

- Electric vehicles and green components



ALTERNATIVE SOURCE

- Energy efficiency products
- Biofuels and Biogas
- Renewable Hydrogen



ADVANCED MANUFACTURING

- Aerospace
- Food and Beverage Production
- Biopharmaceuticals



RECYCLED FEEDSTOCK

- Tire recyclers
- Materials Recovery Facilities (MRFs)
- Composters



Sales and Use Tax Exclusion (STE) Program for Manufacturers

accepting applications for Advanced Manufacturing projects in October 2013. The CAEATFA Board approved its first two Advanced Manufacturing projects at its December 2013 meeting.

Inclusion of Recycled Feedstock Projects

Signed by Governor Jerry Brown on October 11, 2015, AB 199 (Eggman, Chapter 768, Statutes of 2015) further expanded the scope of the STE Program to include projects that process or utilize recycled feedstock (Recycled Feedstock). The Authority modified its regulations to accommodate the statutory changes and began accepting applications for Recycled Feedstock projects in August 2016. The CAEATFA Board approved its first Recycled Feedstock projects at its October 2016 meeting.

Program Design and Evaluation Methodology

Under the STE Program's statute, all applications are evaluated to determine the extent to which the anticipated benefits to the State from a project exceed the estimated cost of the avoided sales and use tax. Specifically, through the net benefits test established in the STE Program's regulations, applicants are evaluated based on criteria designed to measure the fiscal and environmental benefits of their projects.

CAEATFA Staff evaluates the fiscal and environmental benefits that stem directly from the sales and use tax exclusion. Only the anticipated marginal additional production (and resulting fiscal and environmental benefits) associated with the sales and use tax exclusion are included for purposes of evaluating applications. The marginal additional production associated with the sales and use tax exclusion is determined based on an estimated increase in equipment purchases resulting from the sales and use tax exclusion. That is, because the sales and use tax exclusion in effect lowers the cost of purchasing capital equipment, applicants are assumed to purchase more such equipment than would be the case in the absence of the sales and use tax exclusion.

The net present value of the total *fiscal benefits* over the lifetime of the Qualified Property is derived from the applicant's projected sale taxes, personal income taxes paid by the applicant's employees, corporation taxes on profits, property taxes and other indirect fiscal benefits of the applicant.

The methodology used to evaluate the *environmental benefits* differs based on the project type. The evaluation of Advanced Manufacturing projects focuses on the benefits resulting from the manufacturing process used to create a product, whereas evaluation of Alternative Source, Advanced Transportation, and Recycled Feedstock projects focuses on the benefits resulting from the end-product being manufactured.

Who May Apply for an STE?

Eligible manufacturers looking to relocate or expand their manufacturing facilities in California may apply for an STE.

How Are Applications Evaluated?

Applications are evaluated based on the estimated fiscal and environmental benefits of the project.

What Can Be Purchased Using the STE?

Approved companies may use the STE for purchases of manufacturing equipment and machinery for up to three years, or when the company has reached its maximum Qualified Property amount, whichever comes first.

Are There Any Program Fees?

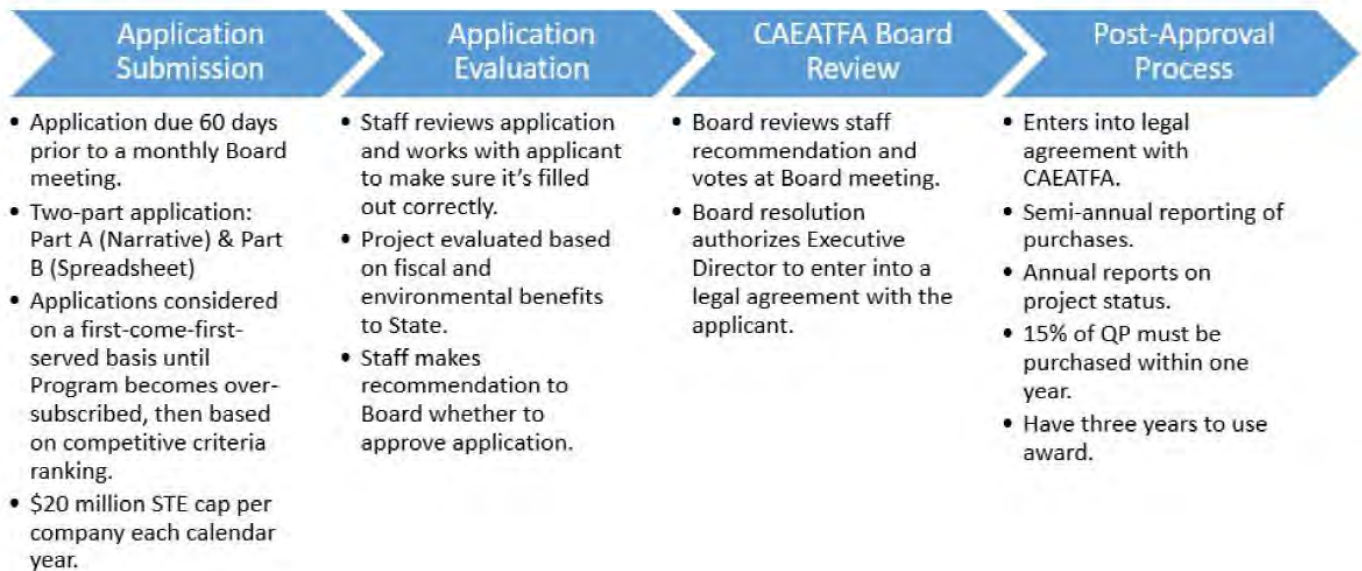
Yes, there is an application fee of 0.05% of the Qualified Property amount requested (min. \$250, max \$10,000), and an administrative fee of 0.4% of the Qualified Property amount actually purchased during the term of the award (min. \$15,000, max. \$350,000).

Sales and Use Tax Exclusion (STE) Program for Manufacturers

For Alternative Source and Advanced Transportation projects, the environmental benefits include estimates of the dollar value of greenhouse gas reductions and reduction on dependence of fossil fuels. The environmental benefits are also derived from the capacity of manufactured products to generate electricity from alternative sources, thereby reducing the need for traditionally generated electricity. For Recycled Feedstock projects, the environmental benefits include estimates of the dollar value of greenhouse gas reductions resulting from the increased total amount of recycled materials produced. CAEATFA relies on models from the U.S. EPA, California Air Resources Board, and other state agencies for quantifying the environmental benefits of recycling the various types of materials.

Because the environmental benefits of Advanced Manufacturing projects generally stem from the improvements to the manufacturing process itself, the environmental benefits for Advanced Manufacturing projects are not monetized in the application scoring process as they are with Alternative Source and Advanced Transportation projects. Instead, points are given for specific environmental process improvements, such as reductions in energy and water consumption, solid and hazardous waste, and air and other pollutants.

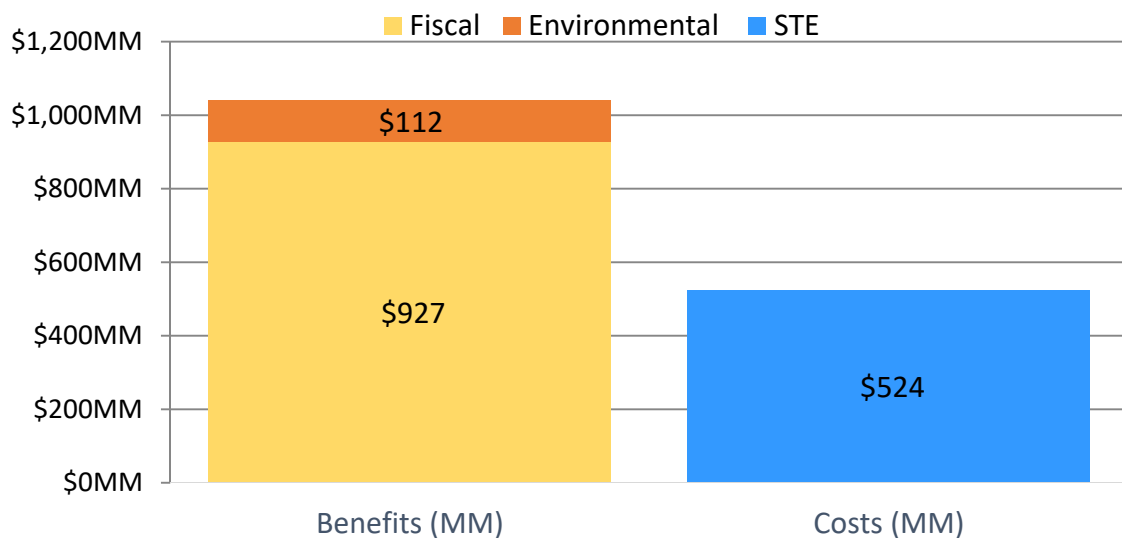
Applicant Process



Sales and Use Tax Exclusion (STE) Program for Manufacturers

Applications are evaluated to determine whether there is a fiscal benefit to the State; only considering the marginal increase in investment resulting from the STE. Figure 1 illustrates the estimated (at the time of application) net benefit over the life of the Program—over \$515MM as of December 2018.

FIGURE 1: ESTIMATED STE NET BENEFIT



Historical Program Activity

From the STE Program's inception through December 31, 2018, CAEATFA approved a total of 201 project applications, of which 96 are active, 63 are complete and 42 did not move forward.

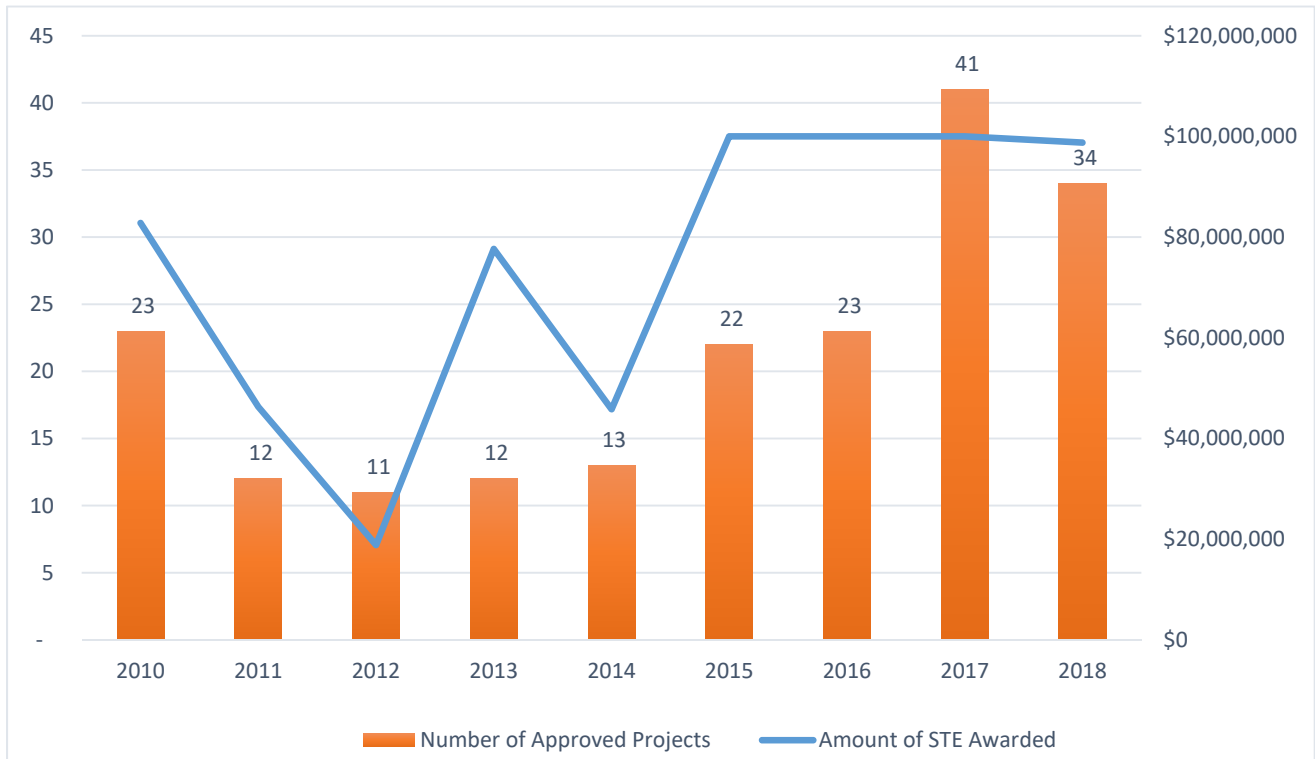
The 159 active and complete projects were approved for a total of \$6.25 billion in anticipated Qualified Property purchases estimated to result in approximately \$524.42 million in STE. These projects are located across 33 counties, and are estimated to result in the retention and creation of 45,373 jobs. Under the program's evaluation process, 2,282 of these jobs are attributable to the STE Program. The projects are anticipated to produce an estimated \$112.54 million in environmental benefits and \$763.68 million in fiscal benefits, resulting in approximately \$214.96 million in net benefits to the state.

The program has been fully subscribed since 2015, awarding the full \$100 million in annual STE, largely due to both growing the number of projects assisted as well as a few large projects.

Sales and Use Tax Exclusion (STE) Program for Manufacturers

Figure 2, below, shows the total number of STE projects considered each calendar year.

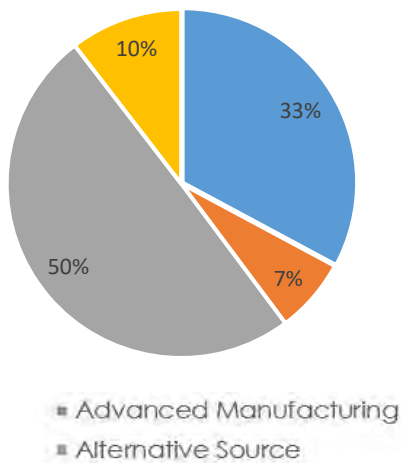
FIGURE 2. ANNUAL STE APPLICATIONS AND VALUE OF AWARDS



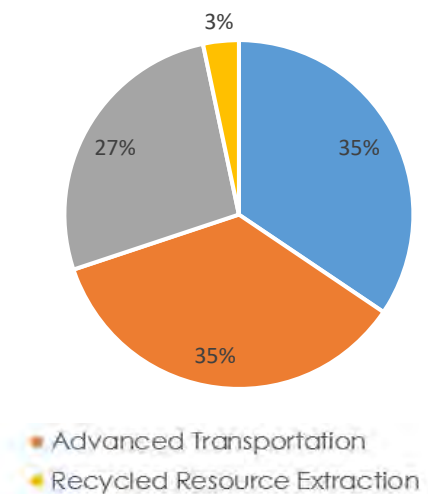
The largest number of approved projects have been in the Alternative Source category, while a higher amount of financial assistance has been provided to projects in the Advanced Manufacturing and Advanced Transportation categories. This is likely due to the high capital intensity of these types of projects.

FIGURE 3: APPROVED PROJECTS BY STE AWARD AND NUMBER

Percent of Approved Projects



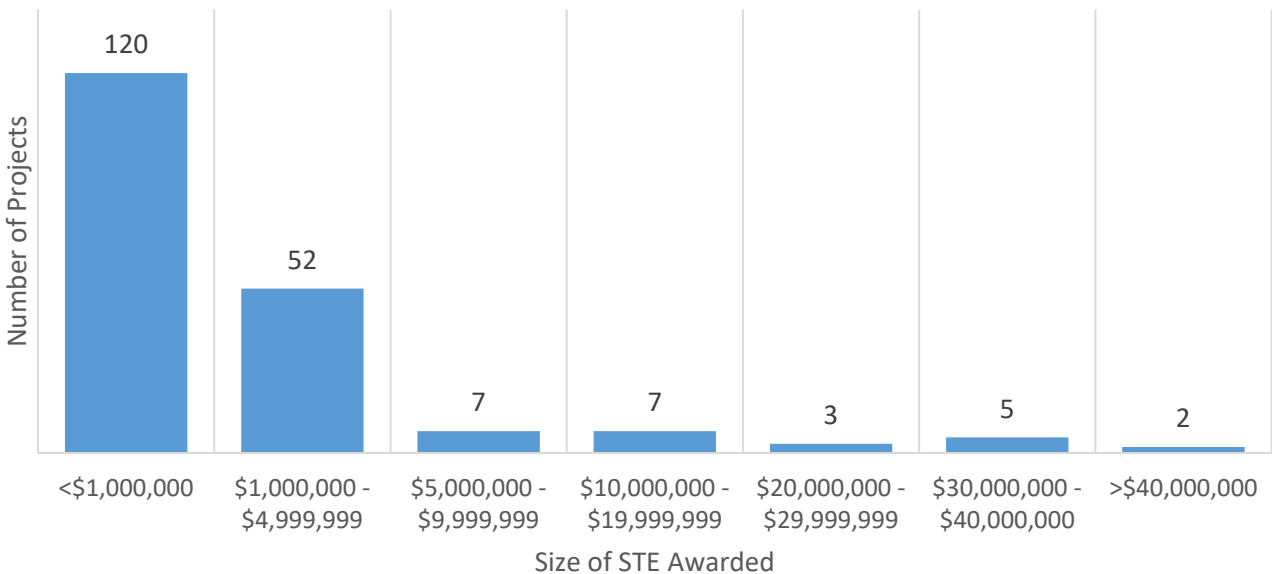
Percent of STE Awards



Sales and Use Tax Exclusion (STE) Program for Manufacturers

To better ensure an equitable distribution of STE to the various industries, CAEATFA established a per-applicant cap of \$20 million each calendar year, to enable the program to assist both small and larger projects. Historically, the majority of projects receive small awards, under \$1 million, while the program can also accommodate larger projects if there is STE remaining at the end of the calendar year. Detailed information on projects considered under the STE Program since its inception can be found in Appendix A.

FIGURE 4: DISTRIBUTION OF PROJECTS BY STE AMOUNT



Report of 2018 Activities

Applications Received

CAEATFA received 40 new applications in the 2018 calendar year. The projects had a combined value of approximately \$1.17 billion in anticipated Qualified Property purchases at the time of application, and were estimated to result in over \$97.4 million in STE at the time of application submittal.¹

Applications Approved

The Authority approved 34 projects in 2018 for a total dollar amount of \$1,181,374,588 in Qualified Property purchases, estimated to result in \$98,762,987 in STE. Appendix B lists applications considered and approved in 2018.

Project Locations and Anticipated Benefits

The 2018 approved projects are located in 22 different counties throughout California. It is expected these projects will provide economic benefits to the state and local jurisdictions in the form of corporate taxes, personal income taxes, sales and property tax revenues, increased employment, and

¹ The estimated sales and use tax exclusion ("STE") amount is based on the current average statewide sales tax rate of 8.36%.

Sales and Use Tax Exclusion (STE) Program for Manufacturers

additional economic activity created by the manufacturing facilities and purchases from related suppliers.

Based on the net benefits methodology embodied in the STE Program regulations and on representation from these applicants, the Authority estimates the applicants approved in 2018 are anticipated to result in estimated combined environmental benefits valued at approximately \$22,089,825 and fiscal benefits valued at approximately \$225,059,751 over the lifetime of the projects. Together, these projected environmental and fiscal benefits will result in approximately \$148,386,751 in estimated net benefits over the lifetime of the projects. See Table 1, below, for a breakdown of the various projects and anticipated benefits by county.

TABLE 1: STE APPROVED PROJECTS BY COUNTY IN 2018²

County ³	Number	Percentage of Total 2018 Projects (%)	Amount of Anticipated Qualified Property Purchases	Projected STE Amount	Estimated Environmental Benefit Value ⁴	Estimated Fiscal Benefit Value	Estimated Quantifiable Net Benefit Value ⁵	Total Jobs	Total Jobs Attributed to the STE
Alameda	2	5.9%	\$241,284,449	\$20,171,380	\$2,581,524	\$19,448,079	\$1,858,223	865	38
Contra Costa	1	2.9%	\$3,636,029	\$303,972	N/A	\$1,897,358	\$1,593,386	62	4
El Dorado	1	2.9%	\$511,000	\$42,720	\$3,484	\$85,695	\$46,549	2	1
Fresno	2	5.9%	\$19,085,645	\$1,595,560	\$16,507	\$3,411,090	\$1,832,037	125	13
Kern	2	5.9%	\$35,083,425	\$2,932,975	\$359,810	\$6,933,247	\$4,360,082	141	11
Kings	2	5.9%	\$259,657,275	\$21,707,348	\$1,216,469	\$41,722,266	\$21,231,386	1,311	91
Los Angeles	3	8.8%	\$169,964,701	\$14,209,049	\$15,578,624	\$87,874,349	\$89,243,925	7,563	138
Madera	1	2.9%	\$3,750,000	\$313,500	N/A	\$1,448,619	\$1,135,119	25	2
Napa	1	2.9%	\$2,852,000	\$238,427	N/A	\$433,975	\$195,548	58	3
Orange	1	2.9%	\$7,680,000	\$642,048	N/A	\$1,164,200	\$522,152	37	2
Placer	1	2.9%	\$5,886,000	\$492,070	N/A	\$1,312,727	\$820,658	79	5
Plumas	1	2.9%	\$516,286	\$43,162	\$4,940	\$31,347	-\$6,874	8	2
Sacramento	1	2.9%	\$876,493	\$73,275	N/A	\$231,095	\$157,820	10	1
San Bernardino	3	8.8%	\$80,938,504	\$6,766,459	N/A	\$7,695,130	\$928,672	290	22
San Diego	1	2.9%	\$3,750,505	\$313,542	\$18,776	\$700,109	\$405,343	24	1
San Joaquin	2	5.9%	\$75,901,591	\$6,345,373	N/A	\$17,511,992	\$11,166,619	715	52
Santa Barbara	1	2.9%	\$44,661,209	\$3,733,677	\$115,040	\$3,630,121	\$11,484	74	10
Santa Clara	3	8.8%	\$29,878,913	\$2,497,877	\$539,959	\$4,598,533	\$2,640,615	205	16
Santa Cruz	1	2.9%	\$7,685,000	\$642,466	\$73,544	\$1,216,403	\$647,480	45	7
Sonoma	1	2.9%	\$8,726,448	\$729,531	N/A	\$799,519	\$69,988	21	2
Stanislaus	2	5.9%	\$156,876,838	\$13,114,904	\$1,378,510	\$19,258,547	\$7,522,153	638	74
Tulare	1	2.9%	\$22,172,277	\$1,853,602	\$202,638	\$3,655,350	\$2,004,386	71	6
Total	34	100.0%	\$1,181,374,588	\$98,762,917	\$22,089,825	\$225,059,751	\$148,386,751	12,369	501

² Projected STE amounts and estimated benefits may not add up correctly due to rounding.

³ There are applicants with multiple project sites under their application. For purposes of this table, the data was applied to the county in which most of the Qualified Property will be located.

⁴ The environmental benefits for Advanced Manufacturing projects are not monetized in the application scoring process as they are with Alternative Source and Advanced Transportation projects. Instead, points are given for specific environmental process improvements, such as reductions in energy and water consumption, solid and hazardous waste, and air and other pollutants.

⁵ Although the cumulative fiscal and environmental benefits fell short of the estimated STE amount for Sierra Institute for Community and Environment, resulting in a negative net benefit, the project received additional points for employment-related benefits that are not quantifiable in fiscal terms, and which increased the Total Scores above the qualifying threshold required pursuant to California Code of Regulations Title 4, Division 13, Section 10033(c)(6). Additionally, because the environmental benefits for Advanced Manufacturing projects are not monetized in the application, Advanced Manufacturing projects are not assigned a quantifiable net benefit value.

Sales and Use Tax Exclusion (STE) Program for Manufacturers

Figure 5 shows a geographical representation of all projects approved under the STE Program in 2018.

FIGURE 5: STE PROJECTS APPROVED IN 2018, BY COUNTY



CALIFORNIA HUB FOR ENERGY EFFICIENCY FINANCING (CHEEF) PROGRAMS

Program Summary

The State of California has ambitious goals to reduce greenhouse gas emissions and address climate change. In 2006, the Legislature passed the California Global Warming Solutions Act (Assembly Bill 32), which created a comprehensive, multi-year program to reduce greenhouse gas (GHG) emissions in California. In the subsequent Scoping Plans, intended to describe the approach California will take to reduce GHGs, one of the primary methods identified is increasing efficiency in existing buildings. Billions of square feet of existing commercial and residential properties—both the structures themselves and the energy using equipment they house—are currently in need of energy upgrades. There is simply not enough government or ratepayer funding to pay for these upgrades.

Background

The California Public Utilities Commission Decision (D.) 13-09-044 authorized a series of financing programs, designed to attract private capital to finance energy efficiency upgrades, and established the California Hub for Energy Efficiency Financing (CHEEF) to administer the new programs. The CPUC requested the California Alternative Energy and Advanced Transportation Financing Authority (CAEATFA) assume the administration of CHEEF, and directed the Investor Owned Utilities (IOUs) and CPUC staff to assist CAEATFA with implementation.

A core feature of the new financing programs is to incentivize private finance companies to improve terms or expand credit criteria for the financing of energy efficiency projects by providing a credit enhancement, funded with IOU energy efficiency ratepayer funds. This credit enhancement helps remove the upfront cost barrier for Californians to undertake energy efficiency retrofits. A key objective is to test whether transitional ratepayer support for credit enhancements can lead to self-supporting energy efficiency finance programs in the future.

The financing programs will be evaluated according to the CPUC goals that the solutions should:

1. Be scalable;
2. Be leveraged by private capital and able to support energy efficiency upgrades;
3. Reach underserved Californians who would not otherwise have participated in EE upgrades;
4. Produce energy savings.

CAEATFA is working with the CPUC, IOUs, finance companies, energy efficiency retrofit contractors, and several key vendors to develop the series of energy efficiency financing programs.

California Hub for Energy Efficiency Financing (CHEEF) Programs

RESIDENTIAL	AFFORDABLE MULTIFAMILY	SMALL BUSINESS	NONRESIDENTIAL
1-4 units of residential property including townhomes, condos and mobile/manufactured homes	Affordable, deed-restricted multifamily properties of 5 or more units, where at least 50% of the units are income restricted	For-profits and non-profits that meet the U.S. Small Business Administration's size restrictions	For-profit, non-profit or government entities of any size, owned or leased
Off Bill	Off Bill On Bill, No disconnection	Off Bill On Bill, Possible disconnection	On Bill Possible disconnection
Loans & Retail Installment Contracts Up to \$50,000	Loans, Leases, Equipment Finance Agreements, Energy Service Agreements		
Credit Enhanced (Loan Loss Reserve)	Credit Enhanced* (Loan Loss Reserve)	Credit Enhanced* (Loan Loss Reserve)	No Credit Enhancement
<ul style="list-style-type: none"> ▪ At least 70% of the financed amount must be eligible energy efficiency/energy savings measures, or demand response. ▪ Up to 30% of the financed amount may fund non-energy efficiency improvements. ▪ Financing for distributed generation (DG) improvements like solar photovoltaic (PV) may be included but will not receive a credit-enhancement. 			<ul style="list-style-type: none"> ▪ At least 70% of the financed amount must be eligible energy efficiency/energy savings measures, demand response or distributed generation. ▪ Up to 30% of the financed amount may fund non-energy related improvements
Launched April 2016	Launching 2019	Launching Q4, 2018	Launching 2019

* Only first \$1MM in financing will receive a credit enhancement

^T Property must receive electric and/or gas service from any of the following energy companies: Pacific Gas and Electric Company (PG&E®), San Diego Gas & Electric Company (SDG&E®), Southern California Edison (SCE) or Southern California Gas Company (SoCalGas®)

Report Activity

The Residential Program (REEL)

CAEATFA's residential program is called REEL—the Residential Energy Efficiency Loan Assistance program. REEL provides attractive financing to owners and renters of existing residential properties who select from a broad list of energy efficiency measures intended to reduce energy consumption. Customers may upgrade a single-family home, townhome, condo, duplex, triplex, fourplex or manufactured home. Renovations for up to four units can be bundled into the same loan.

As with all CHEEF programs, eligibility requires that the property receive electric or natural gas service from at least one of the IOUs: PG&E®, SDG&E®, SCE® or SoCalGas®.

REEL Lenders receive a credit-enhancement of 11% of the claim eligible amount, or 20% if the borrower is considered underserved. Data regarding the number of underserved borrowers receiving REEL loans is discussed below.

The Impact of the Credit Enhancement

The Credit Enhancement mitigates risk for lenders yielding better loan terms for REEL customers and encourages more energy efficiency lending that will help California achieve its greenhouse gas reduction goals.

Based on the initial agreements with REEL lenders, the credit enhancement has resulted in better terms and approval rates for REEL customers.

California Hub for Energy Efficiency Financing (CHEEF) Programs

When interested financial institutions submit an application to become a lender, CAEATFA asks them to describe their most similar loan product (typically an unsecured personal loan) and to describe their current interest rate, minimum credit scores, maximum loan amounts and maximum terms for these loans. With this information, CAEATFA is able to insure the final and approved REEL product has appropriate benefits for borrowers.

Because lenders are free to set their own underwriting criteria within the program guidelines, individual products vary from lender to lender. Table 2 provides highlights of changes that resulted as a result of the credit enhancement. When a range is stated below, it generally ties back to the borrower’s credit score.

TABLE 2: REEL LENDER IMPROVEMENTS RESULTING FROM CREDIT ENHANCEMENT

Lenders:	California Coast Credit Union	Matadors Community Credit Union	Valley Oak Credit Union	Desert Valleys Federal Credit Union	Eagle Community Credit Union	First US Community Credit Union	Pasadena Service Federal Credit Union
Improvements:	STATEWIDE LENDERS		REGIONAL LENDERS				
Interest Rate	Reduction ranged from 347 to 1097 bps ⁶	Reduction ranged from 391 to 641 bps	Reduction ranged from 164 to 614 bps	Reduction ranged from 749 to 1000 bps	Reduction ranged from 675 to 1075 bps	Reduction ranged from 391 to 546 bps	Reduction ranged from 300 to 650 bps
Minimum Credit Score	No change from existing 600	Reduced from 660 to 640	No change from existing 580 ⁷	No change from existing 580 ⁷	No change from existing 580 ⁷	Reduced from 640 to 600	Reduced from 640 to 600
Maximum Loan Amount	Increased from \$20,000 to \$50,000	Increased from \$15,000 to \$50,000	Increased from \$20,000 to \$50,000	Increased from \$2,500 to \$50,000	Increased from \$25,000 to \$50,000	Increased from \$25,000 to \$50,000	Increased from \$20,000 to \$30,000
Maximum Loan Term	Increased from 5 to 15 years	Increased from 5 to 15 years	Increased from 5 to 15 years	Increased from 5 to 15 years	Increased from 5 to 15 years	Increased from 5.5 to 15 years	Increased from 5 to 15 years

The provision of a credit enhancement is at the heart of CHEEF’s financing program design. REEL lenders have made improvements to their existing underwriting criteria, as a result of the loan loss reserve, that significantly benefit potential borrowers. But to put these changes in perspective, it’s important to be reminded of the lending landscape in the absence of a program like REEL, and to see how the credit enhancement helps achieve the goals for the financing programs.

The Impact of REEL

As of the end of 2018, 7 lenders had enrolled in the Program, and over 290 retrofit contractors -- providing customer choice in 46 counties across the State. Together, these lenders have financed over \$5.8 million in energy efficiency retrofits, offering lower cost and broader financing terms.

⁶ bps = Basis point, a common unit of measure for interest rates. A single basis point is equal to 1/100th of 1%, so 100 bps = 1%

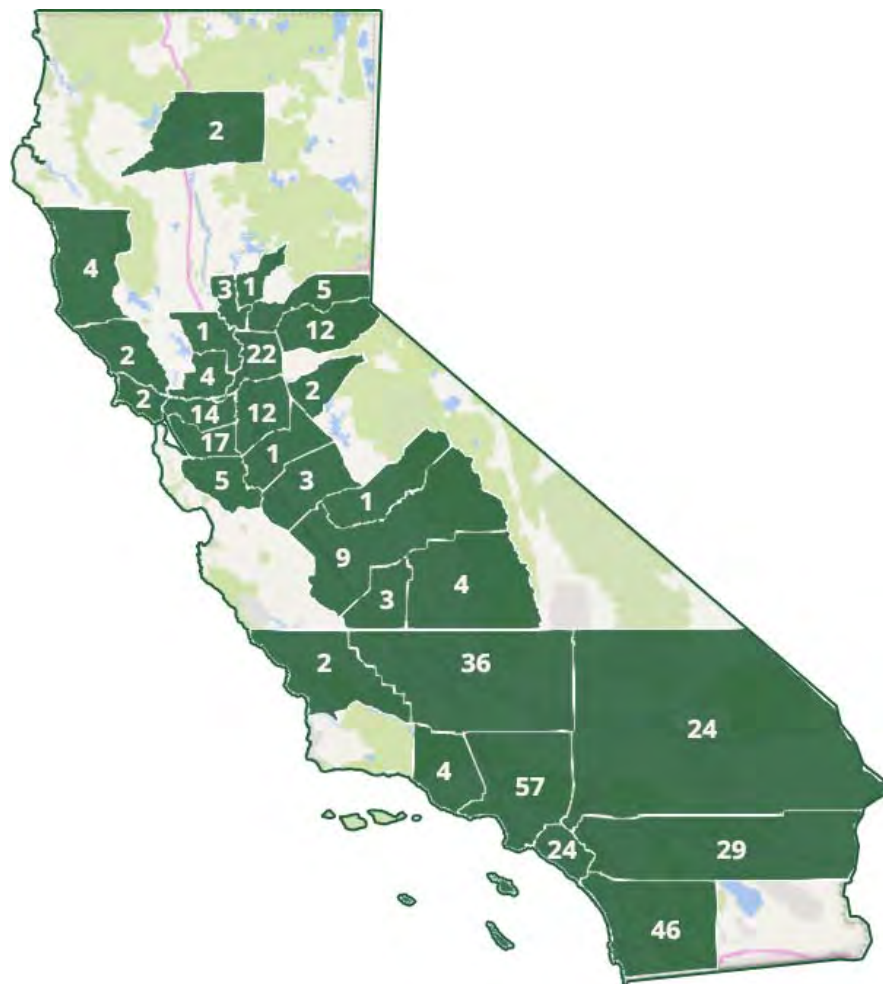
⁷ 580 is the REEL program minimum

California Hub for Energy Efficiency Financing (CHEEF) Programs

The average loan size is \$17,223, and the most common home improvements are air conditioning (HVAC), duct work, windows and insulation. Of these loans, 52% were for home improvements on properties in low-moderate income census tracts.

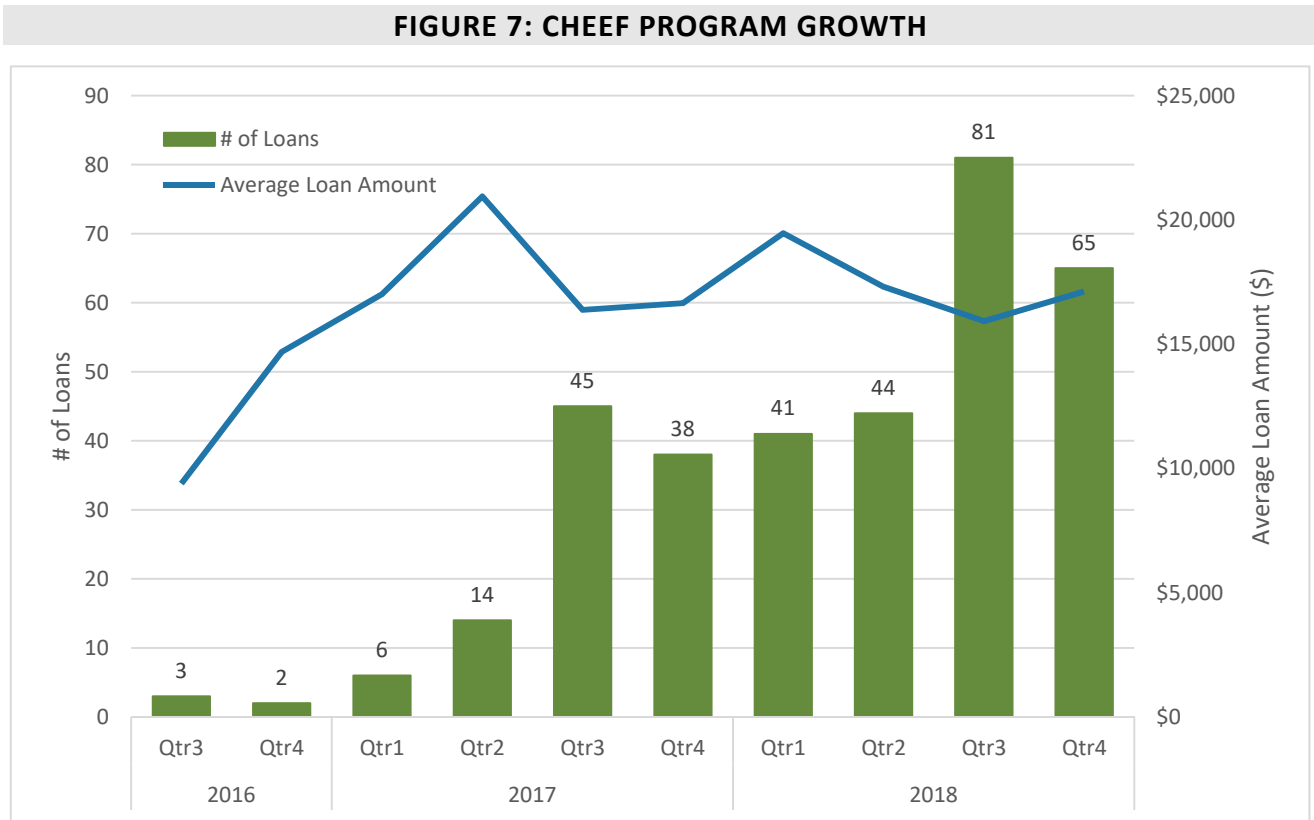
Figure 6 shows the number of REEL loans enrolled, by county, from the start of the program through the end of 2018.

FIGURE 6: REEL LOANS ENROLLED BY COUNTY



California Hub for Energy Efficiency Financing (CHEEF) Programs

Figure 7 shows loan growth by quarter and average loan size.



Outreach

GoGreen Financing – www.gogreenfinancing.com is an easy-to-use website, where consumers can learn about the types of energy efficiency projects available to install, find local REEL contractors who can install the measures, and explore the financing options provided by REEL lenders (and even apply for a loan online) has a big impact on the success of the program. CAEATFA and our partners continue to work to improve and expand this new website to make it even more helpful and intuitive for consumers.

Social Media – throughout the year, CSE, the REEL marketing implementer, made 56 consumer-facing social media posts regarding REEL on Facebook and Twitter.

California Hub for Energy Efficiency Financing (CHEEF) Programs

Contractor Outreach – Frontier Energy, the REEL Contractor Manager, continued its outreach to potential REEL contractors. By the end of 2018, borrowers could choose from 290 contractors statewide.

IOU Customer Outreach – The marketing support of the IOUs is invaluable to the success of the REEL financing program. As trusted messengers, the IOUs have the opportunity to reach millions of customers with a single email. This messaging helps build program awareness, and increases visits to GoGreen Financing and the participating lenders.

Events – Throughout 2018, CSE and the IOUs participated in over 29 community events at which the REEL program was represented. These include a broad range of events like the Ventura County Fair and the 41st Assembly District Community Resource Fair and Block Party.



Next Steps

REEL has continued to grow as CAEATFA has implemented modifications authorized by CPUC Decision 17-03-026. In 2018, the CPUC’s Evaluation, Measurement & Verification team began its assessment of REEL, which is anticipated to be completed in the summer of 2019. When that process has completed, the CPUC will assess whether to continue and grow the program.

The Small Business Energy Efficiency Finance Program (SBF)

Like all the financing pilots, the Small Business Energy Efficiency Financing program (“Small Business Finance” or SBF) seeks to address multiple challenges.

- Provide a state-backed financing program designed to address the energy efficiency challenges faced by business owners and tenants: small business owners face challenges when it comes to energy upgrades. Although energy use can account for up to 20 percent of the expenditures of a small business, business owners often don’t have the expertise, time, or capital to invest in efficiency measures for their business. The SBF program was designed with these small business owners in mind.
- Provide an accessible—and attractive—financing option for small businesses: finance companies often view small businesses as a greater credit risk than larger ones and when small businesses do get financing, they typically pay higher interest rates. Given that the underwriting costs for evaluating, verifying, and processing a small loan is roughly the same as for a larger one, lenders are pushed to focus on larger loans to bigger businesses.
- Provide a source of financing that allows deep energy retrofits in existing buildings: an estimated 3 billion square feet of small commercial business space was built in California before statewide, energy efficiency building standards were introduced. This leaves these, and many other, existing buildings in need of deep energy retrofits.

California Hub for Energy Efficiency Financing (CHEEF) Programs

Program Design

CAEATFA staff were able to focus on the development of the Small Business Finance (SBF) program in 2018, after it focused on improvement in REEL. Staff conducted dozens of outreach calls, held public workshops and attended various outreach events. Program regulations were approved by the CAEATFA Board in November 2018, and enacted by the Office of Administrative Law in December 2018.

Key design principles include:

- The program must be streamlined and easy to use.
- The Program should integrate with IOU energy efficiency programs, but must also meaningfully test a non-rebate pathway to savings.
- The Program must be broadly relevant to the commercial energy efficiency retrofit market and work with a variety of business models and value chains.
- The Program is designed to fill a need that is not currently being filled.
- The Program is designed to remove barriers for customers.

Customer Eligibility

Financing through the program will be available to small businesses, non-profits and market rate multifamily properties who meet the size requirements listed below:

- 100 or fewer employees, or
- Annual revenues of less than \$15 million, or
- Meet SBA small business size requirements
 - Annual revenue limits range from \$750,000 to \$38.5 million depending on industry

Loan Size and Credit Enhancement

Small business owners and renters will be eligible for SBF, and can take out loans up to \$5 million. The first \$1 million will be credit enhanced, as follows:

- The first \$50,000 of each financing agreement will be credit enhanced at 20%
- The remainder (up to an additional \$950,000) will be credit enhanced at 5%
- Maximum loss reserve contribution will be \$57,500

Financing Instruments

To best accommodate the market, the program will facilitate a variety of financing instruments, including:

- Loans - Customer takes ownership of measures
- Lease/Efficiency Financing Agreements
 - Customer gets use of measures
 - Title can transfer at end of lease term or at the beginning of term (Equipment Finance Agreement).
- Service Agreements
 - Customer gets use of measures

California Hub for Energy Efficiency Financing (CHEEF) Programs

- Regular, ongoing service and maintenance of measures is provided to the customer
- Title does not transfer to customer
- Guarantee of functionality of measures or guarantee of energy savings
- Savings Based Payment Agreements
 - Savings measured and verified at least annually
 - Agreement is “cashflow positive” for customer compared to prior energy bills
 - Customer shares in benefits if savings exceed expectations
 - Customer does not bear risk if savings are less than projected

As with all CHEEF programs, eligibility requires that the property receive electric or natural gas service from at least one of the IOUs.

Next Steps

CAEATFA anticipates enrolling the first lenders and retrofit contractors into the program in Q1 2019, and anticipates a limited launch in the spring. Concurrently, staff is working with its vendors in developing a user interface to facilitate transactions in the broader roll-out of the program in the Summer/Fall of 2019.

The Affordable Multifamily Program

In 2018, CAEATFA was able to devote staff time to the development of the Affordable Multifamily (AMF) program, incorporating feedback from the industry into the initial program design. The team continues to work to integrate ongoing research.

Following closely behind the rollout of the SBF program, the AMF program is able to leverage a number of the processes and resources developed during the design of the SBF program. These efficiencies put CAEATFA on schedule to meet its AMF launch goal of mid-2019.

Initial Program Design

Please note that the AMF program design described below is the “initial” design, as it is currently envisioned by CAEATFA. The design has been the result of a public workshop process, and is subject to additional change resulting from added research and information, including stakeholder feedback.

Program Leveraging

A key efficiency of the AMF program design is integration with existing AMF programs across the state, specifically the Low-Income Weatherization Program (LIWP) administered by the State’s Department of Community Services and Development, and the Solar On Multifamily Affordable Homes (SOMAH), administered by CPUC, via a competitively selected team of non-profit organizations.

LIWP offers a generous incentive to qualifying AMF properties who install energy efficiency, and SOMAH requires the completion of an energy audit before issuing an incentive to install solar. Both programs have detailed processes and procedures already in place to encourage the installation of cost-effective energy efficiency measures, and CAEATFA is working toward integration with both programs to offer its attractive financing for the portion of the measures not incentivized.

California Hub for Energy Efficiency Financing (CHEEF) Programs

Similarly, the AMF program will fund any energy efficiency or demand response measure approved for rebate and incentive by any IOU, Renewable Energy Network (REN) or Community Choice Aggregator (CCA), as well as any measure from its aforementioned Energy Savings Measures list.

Key Program Features

- No minimum or maximum loan size
- The first \$1 million of each loan will be credit enhanced, at 15% of the claim eligible amount
- Fixed or variable rates allowed
- No underwriting requirements imposed on the finance company. Underwriting is based on participating financier's requirements

Customer Eligibility

Any AMF property of 5 units or more where at least 50% of the units are income restricted to 80% Area Median Income is eligible for financing.

Financing Instruments

Similar to the Small Business Financing program, the AMF program intends to support varying financing product types such as loans, leases, service agreements and savings-based payment agreements.

Next Steps

Staff has drafted proposed regulations for stakeholder feedback, and anticipates holding a public workshop in early 2019. After considering additional public input, regulations will be brought to the CAEATFA Board in spring 2019, and anticipate enrolling its first lenders and projects into the program by the end of the year.

Nonresidential Program

The Nonresidential program is designed to be available to:

- for-profit businesses and nonprofit organizations that do not meet eligibility requirements as a "Small Business"
- public entities

Like all the financing programs, the Nonresidential program is designed to encourage growth in private market lending. Though a credit enhancement will not be provided, the program will be designed to provide financing, which will be repaid on the utility bill, for building energy efficiency, distributed generation, battery storage and demand response projects. The flexibility of the program will allow the combination of financing with IOU rebates and other incentives.

In developing the SBF program design and regulations, CAEATFA anticipated how the program would need to be modified to incorporate the Nonresidential program as well as On-Bill Repayment functionality for SBF (see below). Much of the work done to establish the SBF program will be leveraged in the development of the Nonresidential program. The current timetable for program development is uncertain, as resources are currently targeted to the SBF and AMF programs.

California Hub for Energy Efficiency Financing (CHEEF) Programs

On-Bill Repayment (OBR)

Several programs will include On-Bill Repayment (OBR) as a key feature. CAEATFA staff has been working with the IOUs and the Master Servicer (MS) to establish the OBR infrastructure. The CPUC's recent Decision provided CAEATFA with the ability to offer off-bill repayment for the SBF and AMF programs. CAEATFA has continued to work on the development of OBR, while concurrently launching off-bill versions. It is anticipated that the design and build-out of OBR will be established in 2019.

PROPERTY ASSESSED CLEAN ENERGY (PACE) LOSS RESERVE PROGRAM



Program Summary

Legislative Background

The Property Assessed Clean Energy (PACE) Loss Reserve Program (the Program) was authorized in September 2013 to assist residential single family PACE financing by helping to increase its acceptance in the marketplace and protect against the risk of default and foreclosure. PACE allows local jurisdictions to finance renewable energy installations, energy and water efficiency retrofits, and electric vehicle charging infrastructure by issuing bonds that are repaid by participating property owners through their property tax assessments.

PACE initially launched as a financing mechanism for energy efficiency and renewable retrofits in 2008. However, on July 6, 2010, the Federal Housing Finance Agency (FHFA) issued a pronouncement that PACE programs “present significant safety and soundness concerns” and violated standard mortgage provisions since PACE tax liens have priority over any other loan or mortgage. The concerns expressed by FHFA caused the majority of the residential PACE programs throughout the country to be placed on hold at that time, including many of the existing residential PACE programs in California.

In response to FHFA’s concerns and to further support the development of PACE in California, Senate Bill 96 (Committee on Budget and Fiscal Review, Chapter 356, Statutes of 2013) authorized CAEATFA to develop and administer the PACE Loss Reserve Program with an initial allocation of \$10 million. The program will assist in addressing FHFA’s financial concerns to first mortgage lenders and collect data to better quantify actual risk, while helping the State reach its energy efficiency and renewable goals by supporting residential PACE.

Program Design

The goal of the Program is to put first mortgage lenders in the same position they would be in without the PACE lien on the property. The PACE Loss Reserve makes first mortgage lenders whole for any direct losses incurred due to the existence of a PACE lien on a property. To that end, the Loss Reserve covers the following losses:

1. PACE payments paid while a first mortgage lender is in possession of a property subject to a PACE assessment.
2. Any losses to the first mortgage lender up to the amount of outstanding PACE assessments in a forced sale for unpaid taxes or special assessments.

PACE administrators may participate in the Program by applying to CAEATFA and demonstrating that they meet the Program’s minimum underwriting criteria as established in statute and regulation.

Property Assessed Clean Energy (PACE) Loss Reserve Program

Once enrolled, each eligible financing originated by an enrolled PACE administrator and included in its semi-annual reports may be covered by the Loss Reserve for its full term, or until the Loss Reserve is exhausted. Additionally, PACE administrators that applied to the Program on or before June 9, 2014 were allowed to enroll their existing portfolios under the Loss Reserve to maximize the Program’s effectiveness. To allow new PACE programs (created on or after March 10, 2014) to enroll in the Program without delaying their operations, the Loss Reserve also covers financings originated up to 30 days before their enrollment date.

Enrolled PACE administrators must report to CAEATFA on the size and status of their portfolios in March and October of each year. Each report includes detailed information on the financings issued during the reporting period, including the assessor’s parcel number, principal amount, annual assessment amount and term. The October reports also include information on the size and value of the cumulative financing portfolio and information on energy and water savings resulting from the funded projects, to the extent that information is available.

Report on 2018 Activity

Program Enrollment

As of December 31, 2018, 19 PACE programs have enrolled in the PACE Loss Reserve Program. In 2018, CAEATFA Staff enrolled one PACE program: PACE Funding (WRCOG).

Table 3, below, shows all of the PACE programs enrolled each year.

TABLE 3: PACE PROGRAMS ENROLLED EACH YEAR

2014	2015	2016	2017	2018
<ul style="list-style-type: none"> · mPOWER Placer · mPOWER Folsom · Berkeley FIRST · Sonoma County Energy Independence Program · CaliforniaFIRST · WRCOG HERO · SANBAG HERO · California HERO 	<ul style="list-style-type: none"> · AllianceNRG · LA HERO · CaliforniaFIRST in LA County · Ygrene 	<ul style="list-style-type: none"> · PACE Funding (CSCDA) · CMFA PACE 	<ul style="list-style-type: none"> · CSCDA HERO Program · Figtree PACE Program · Spruce PACE · mPOWER 	<ul style="list-style-type: none"> · PACE Funding (WRCOG)

During initial program enrollment in June 2014, the 8 participating PACE programs enrolled 17,401 PACE financings with a total principal value of over \$350,000,000. To date, the Loss Reserve covers

Property Assessed Clean Energy (PACE) Loss Reserve Program

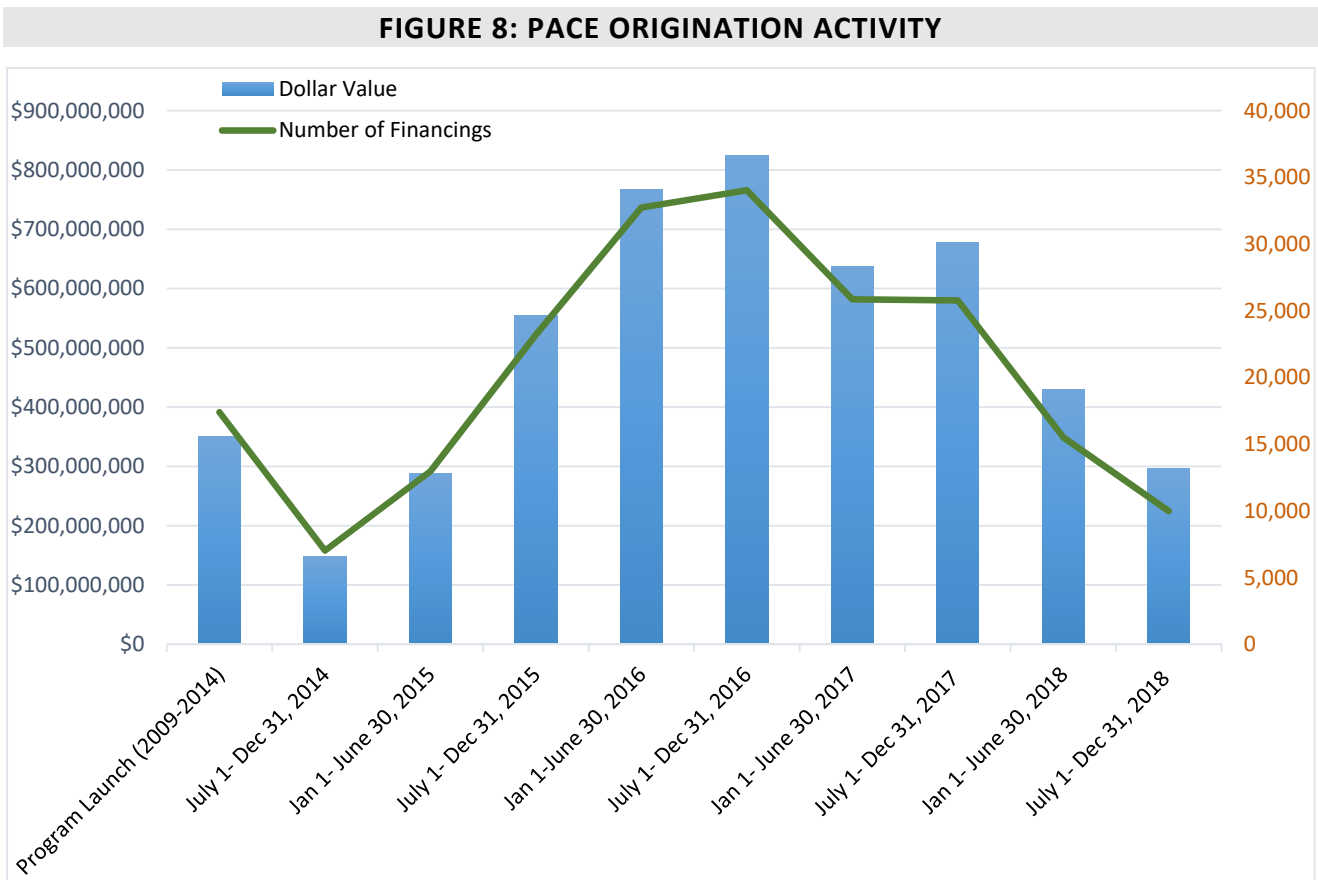
156,375 PACE financings with a total outstanding principal value of \$3,632,742,099.94. For the 2018 reporting periods, participating PACE programs enrolled 25,513 PACE financings with a total principal value of \$727,308,754. A chart of all Program enrollment activity as of December 31, 2018 can be found in Appendix D.

Claims on the Loss Reserve

To date, no claim has been made on the Loss Reserve. At Program development, CAEATFA Staff initially estimated that the \$10 million Loss Reserve would last between eight to twelve years. CAEATFA is working to analyze the Loss Reserve’s potential long-term liability and longevity based on activity to date. In 2018, the PACE Loss Reserve Program staff selected a firm and began performing a risk analysis of the \$10 million loss reserve to help inform future efforts.

Program Impact and Results

After the Program’s launch, residential PACE saw a significant increase in origination activity, with residential PACE administrators offering PACE financing in most counties in California. Figure 8, below, shows the growth of the enrolled portfolio of PACE financings in the Loss Reserve.



The Loss Reserve covers PACE financings for energy and water efficiency improvements, electric vehicle charging infrastructure, and clean energy improvements. Table 4, below, details the estimated

Property Assessed Clean Energy (PACE) Loss Reserve Program

environmental savings from enrolled financings issued as of June 30, 2018, as reported by each PACE program administrator.

TABLE 4: ESTIMATED ENVIRONMENTAL SAVINGS FROM ENROLLED PACE FINANCINGS

Program Name	Estimated Environmental Savings from Enrolled Financings ⁸
mPOWER Placer	23,563,788 kWh saved annually 4,359.3 MTCO2 saved annually
mPOWER Folsom	576,419 kWh saved annually 106.6 MTCO2 saved annually
Berkeley FIRST	54,408 kWh annually
Sonoma County Energy Independence Program	21,093,682 kWh over lifetime 80,819.81 MTCO2 over lifetime 136,722 therms over lifetime
CaliforniaFIRST	6,052,538 kWh generated annually 3,427,358 kWh saved annually 249,779 therms saved annually 5,623,050 gal saved annually
WRCOG HERO Program	7,146,704 kWh saved annually 8,386,906 gal saved annually
SANBAG HERO Program	86,518,606 kWh saved annually 55,474,490 gal saved annually
California HERO Program	38,038,299 kWh saved annually 17,754,926 gal saved annually
AllianceNRG	3,558,750 kWh generated annually 171,244 kWh saved annually 3,191 therms saved annually 651,033 gal saved annually
LA HERO Program	13,010,236 kWh saved annually 16,614,069 gal saved annually
CaliforniaFIRST in Los Angeles County	821,837 kWh generated annually 1,642,745 saved annually 119,720 therms saved annually 4,594,209 gal saved annually
Ygrene Works Program	130,430,406 kWh saved annually 33,135 MTCO2 saved annually 91,058,678 gal saved annually
PACE Funding	6,454,273 kWh generated annually 500,471 kWh saved annually 11,942 therms saved annually 4,186,000 gal saved annually
California Municipal Finance Authority	782,159,237 kWh generated over lifetime 574,245,533 kWh saved over lifetime 121,319 MTCO2 over lifetime 415,297,235 gal saved over lifetime
Spruce PACE	279,435 kWh generated annually

⁸ Administrators use various distinct methodologies to assess the environmental impact of their program.

Property Assessed Clean Energy (PACE) Loss Reserve Program

Program Name	Estimated Environmental Savings from Enrolled Financings ⁸
	1,432 kWh saved annually
CSCDA HERO	5,961,776 kWh saved annually 4,177,620 gal saved annually
Figtree	1,460,415 kWh annually
mPower Pioneer	1,741,274 kWh saved annually 322.1 MTCO ₂ saved annually

BOND FINANCING ACTIVITIES

Program Summary

CAEATFA has served as the State’s primary alternative energy bond issuer since its inception in the 1980s. As a conduit bond issuer, CAEATFA has worked with both public and private entities in issuing over \$212 million in bond financing for 26 projects over its lifetime. The projects help to meet federal and state energy goals, and have included solar, hydroelectric, geothermal, biomass and cogeneration projects. A list of CAEATFA’s outstanding bonds can be found in Table 5.

Most recently, CAEATFA successfully issued Qualified Energy Conservation Bonds to assist in the financing of a public utility’s one megawatt (MW) solar project in San Diego (2010), and Clean Renewable Energy Bonds on behalf of the California Department of Transportation to install solar on approximately 70 of its properties across the state anticipated to save taxpayers \$52.5 million in energy costs.

The financial assistance and incentives that CAEATFA can provide as a conduit bond issuer are authorized by Federal statute and programs. CAEATFA did not have any new bond issuances in 2017.

CAEATFA continues to collaborate with stakeholders to discuss innovative approaches to meet the financing gaps for renewable energy and energy efficiency projects.

Outstanding Bonds

The Authority had two outstanding bond issues in 2018, amounting to a combined total of \$5,750,289 in bond debt as of December 31, 2018.

TABLE 5: OUTSTANDING BONDS

Closing Date	Bond Short Name	Bond Type	Final Maturity	Amount of Issue	Outstanding Debt
06/10/2009	Caltrans Projects Series 2009	CREB ⁹	12/15/2023	\$20,000,000	\$2,130,667
11/18/2010	Fallbrook Public Utility District Solar Project Series	QECB ¹⁰	11/18/2027	\$7,227,000	\$3,619,623

TOTAL: \$82,227,000 \$5,750,289

⁹ Clean Renewable Energy Bond

¹⁰ Qualified Energy Conservation Bond

REPORT OF AUTHORITY'S FINANCES

This report of the Authority's finances is submitted pursuant to Public Resources Code Section 26017.

Revenues and Expenditures – FY 2017-18

The Authority's total revenues for fiscal year 2017-18 were \$3,138,244 and the total expenditures were \$3,572,000.

TABLE 6: REVENUES AND EXPENDITURES - FY 2017-18

Total Revenues ¹¹ :	\$3,138,244
Expenditures:	
Salaries and Wages	\$1,086,000
Staff Benefits	\$576,000
Operating Expenses and Equipment	\$1,909,000
Total Expenditures ¹²	\$3,572,000

Projected Needs and Requirements – FY 2018-19; FY 2019-20

The Authority anticipates it has the financial needs and requirements identified in Table 7 for the 2018-19 and 2019-20 fiscal years.

TABLE 7: PROJECTED NEEDS AND REQUIREMENTS¹³ – FY 2018-19; FY 2019-20

	FY 18-19	FY 19-20
Total Salaries and Wages	\$1,425,000	\$1,453,000
Staff Benefits	\$704,000	\$719,000
Total Operating Expenses and Equipment	\$3,646,000	\$2,979,000
Total Projected Needs and Requirements	\$5,775,000	\$5,151,000

¹¹ Total revenues include fees collected from the STE and Bond Program. Total revenues listed do not include reimbursements received from the CPUC to cover costs associated with CAEATFA's administration of the CHEEF.

¹² Total expenditures include expenditures associated with all of CAEATFA's programs, including the administration of the CHEEF on behalf of the CPUC.

¹³ The values in this Section are as reported in the [Governor's Proposed Budget for the 2019-20 fiscal year](#).

**APPENDIX A:
SALES AND USE TAX EXCLUSION
APPLICATIONS CONSIDERED TO DATE**



Appendix A: Sales And Use Tax Exclusion Applications Considered To Date

Application Number	Date of Board Consideration	Applicant Name	City	County	Project Type	Use of Proceeds	QP Amount	STE Amount (Anticipated) ¹	STE Used to Date ¹	QP Amount Reported	% Reported	Estimated Environmental Benefit	Estimated Fiscal Benefit ²	Estimated Net Benefit ²	Expected Total Jobs ³	Expected Total Jobs from STE ²	Project Status	
1	10-SM015	11/17/2010	Bloom Energy Corporation	Sunnyvale	Santa Clara	Alternative Source	Solid Oxide Fuel Cell Systems Manufacturing	\$ 37,447,693	\$ 3,407,740	\$ 2,791,571	\$ 33,120,259.28	88%	\$ 562,054	\$ 11,144,189	\$ 8,298,503	1,004	83	Active
2	11-SM005	6/28/2011	Recology East Bay	Oakland	Alameda	Alternative Source	Biomass Processing and Fuel Production	\$ 3,703,090	\$ 336,981	\$ -	\$ -	0%	\$ 111,243	\$ 506,852	\$ 281,113	46	5	Active
3	11-SM012	8/23/2011	CE Obsidian Energy, LLC	Imperial	Imperial	Alternative Source	Geothermal Brine Extraction	\$ 174,453,978	\$ 14,130,772	\$ -	\$ -	0%	\$ 7,487,143	\$ 11,697,269	\$ 5,053,640	381	39	Active
4	12-SM001	2/21/2012	Soraa, Inc.	Fremont	Alameda	Alternative Source	Energy Efficient LED Lighting Manufacturing	\$ 57,002,457	\$ 4,617,199	\$ 1,708,596	\$ 20,380,383.49	36%	\$ 30,775,968	\$ 2,368,664	\$ 28,527,434	180	14	Active
5	12-SM011	10/16/2012	Clean World Partners LLC	Sacramento	Sacramento	Alternative Source	Biomass Processing and Fuel Production	\$ 11,796,759	\$ 955,537	\$ -	\$ -	0%	\$ 204,651	\$ 977,083	\$ 226,196	24	3	Active
6	12-SM013	11/13/2012	Oberon Fuels, Inc.	Brawley	Imperial	Alternative Source	Biogas Capture & Bio DME Production	\$ 13,500,000	\$ 1,093,500	\$ 47,558	\$ 568,195.71	4%	\$ 423,866	\$ 679,196	\$ 9,561	17	3	Active
7	13-SM002	3/19/2013	Buster Biofuels, LLC	Escondido	San Diego	Alternative Source	Biodiesel Production	\$ 1,905,343	\$ 159,477	\$ 180,430	\$ 1,905,343.00	100%	\$ 103,496	\$ 786,032	\$ 730,051	32	2	Active
8	13-SM005	4/16/2013	Vitriflex, inc.	Milpitas	Santa Clara	Alternative Source	Photovoltaic Solar Component Manufacturing	\$ 16,330,000	\$ 1,366,821	\$ 372,404	\$ 4,422,852.69	27%	\$ 1,256,397	\$ 886,066	\$ 775,642	47	4	Active
9	13-SM013	11/19/2013	Crimson Renewable Energy, LP	Bakersfield	Kern	Alternative Source	Biomass Processing and Fuel Production	\$ 14,065,000	\$ 1,177,241	\$ 703,717	\$ 8,350,704.22	59%	\$ 136,306	\$ 2,737,899	\$ 1,696,964	38	2	Active
10	13-SM012	12/17/2013	CE&P Imperial Valley 1, LLC	Brawley	Imperial	Advanced Manufacturing	Biomass Processing and Fuel Production	\$ 444,811,275	\$ 37,230,704	\$ -	\$ -	0%	N/A	\$ 51,344,220	N/A	650	84	Active
11	13-SM014	12/17/2013	Boxer Industries, Inc.	Redwood City	San Mateo	Advanced Manufacturing	Carbon Black Production	\$ 6,553,000	\$ 548,486	\$ 420,466	\$ 4,993,661.25	76%	N/A	\$ 539,522	N/A	12	1	Active
12	14-SM001	2/18/2014	Enovix Corporation	Fremont	Alameda	Advanced Manufacturing	Lithium Ion Battery Manufacturing	\$ 16,234,215	\$ 1,388,206	\$ 265,479	\$ 3,154,441.73	19%	N/A	\$ 1,920,567	N/A	55	4	Active
13	14-SM004	5/20/2014	Pixley Biogas, LLC	Pixley	Tulare	Alternative Source	Biogas Capture and Production	\$ 3,363,238	\$ 283,185	\$ 270,061	\$ 3,207,375.84	95%	\$ 287,308	\$ 321,007	\$ 325,130	9	2	Active
14	14-SM005	5/20/2014	MSB Investors, LLC	Santa Barbara	Santa Barbara	Alternative Source	Biogas Capture and Production	\$ 17,696,003	\$ 1,490,003	\$ -	\$ -	0%	\$ 319,442	\$ 1,391,985	\$ 222,423	75	5	Active
15	14-SM006	5/20/2014	Recology, Inc.	Vacaville	Solano	Alternative Source	Biogas Capture and Production	\$ 25,967,035	\$ 2,186,424	\$ -	\$ -	0%	\$ 271,168	\$ 2,747,503	\$ 832,247	57	8	Active
16	14-SM007	5/20/2014	EBJ Gallo Winery	Livingston	Merced	Alternative Source	Biogas Capture and Production	\$ 17,592,381	\$ 1,481,278	\$ 1,196,814	\$ 14,213,942.75	81%	\$ 356,059	\$ 1,120,550	\$ 4,670	57	8	Active
17	14-SM008	6/17/2014	Niagara Bottling, LLC	San Bernardino	San Bernardino	Advanced Manufacturing	Water Bottling Facility	\$ 30,000,000	\$ 2,525,683	\$ 2,525,683	\$ 29,996,238.73	100%	N/A	\$ 7,988,338	N/A	86	6	Active
18	14-SM009	8/19/2014	nanoPrecision Products, Inc.	El Segundo, Camarillo	Los Angeles, Ventura	Advanced Manufacturing	Optical Ferrule Manufacturing	\$ 7,963,792	\$ 670,566	\$ 419,240	\$ 4,979,092.66	63%	N/A	\$ 840,081	N/A	50	4	Active
19	14-SM010	8/19/2014	AltAir Paramount, LLC	Paramount	Los Angeles	Alternative Source	Renewable Diesel Production	\$ 16,325,984	\$ 1,374,648	\$ 911,002	\$ 10,819,501.78	66%	\$ 287,233	\$ 6,023,164	\$ 4,935,750	141	3	Active
20	14-SM011	9/16/2014	Rialto Bioenergy Facility, LLC	Bloomington	San Bernardino	Alternative Source	Biogas Capture and Production	\$ 14,722,168	\$ 1,239,607	\$ -	\$ -	0%	\$ 765,232	\$ 1,662,628	\$ 1,188,254	35	3	Active
21	14-SM012	9/16/2014	Anaheim Energy, LLC	Anaheim	Orange	Alternative Source	Biogas Capture and Production	\$ 19,143,601	\$ 1,611,891	\$ 93,153	\$ 1,106,329.02	6%	\$ 568,979	\$ 1,938,411	\$ 895,499	40	5	Active
22	14-SM022	12/16/2014	Bowerman Power LFG, LLC	Irvine	Orange	Alternative Source	Landfill Gas Capture and Production	\$ 7,030,000	\$ 591,926	\$ 520,311	\$ 6,179,466.25	88%	\$ 273,723	\$ 1,091,792	\$ 773,589	30	3	Active
23	15-SM003	2/17/2015	Silevo, Inc.	Fremont	Alameda	Alternative Source	Solar Photovoltaic Manufacturing	\$ 106,551,184	\$ 8,971,610	\$ 5,824,877	\$ 69,179,058.21	65%	\$ 3,402,597	\$ 9,175,513	\$ 3,606,500	319	33	Active
24	15-SM005	4/21/2015	GKN Aerospace Chem-Tronics, Inc.	Santa Ana	Orange	Advanced Manufacturing	Aerospace Manufacturing	\$ 118,687,529	\$ 9,993,490	\$ 1,445,089	\$ 17,162,581.68	14%	N/A	\$ 8,483,497	N/A	231	13	Active
25	15-SM003	5/19/2015	Weber Metals, Inc.	Paramount	Los Angeles	Advanced Manufacturing	Metal Forging	\$ 167,661,606	\$ 14,117,107	\$ 6,902,988	\$ 81,983,235.00	49%	N/A	\$ 35,048,735	N/A	192	18	Active
26	15-SM006	6/16/2015	Efficient Drivetrains, Inc.	Milpitas	Santa Clara	Advanced Transportation	Electric Vehicle Drivetrain Manufacturing	\$ 5,008,800	\$ 421,741	\$ 23,046	\$ 416,609.85	8%	\$ 1,434,548	\$ 970,990	\$ 1,983,797	57	4	Active
27	15-SM007	6/16/2015	The Monadnock Company	Industry	Los Angeles	Advanced Manufacturing	Specialty Aerospace Fastener Manufacturing	\$ 6,475,000	\$ 545,195	\$ 30,590	\$ 363,300.02	6%	N/A	\$ 1,847,167	N/A	299	10	Active

Appendix A: Sales And Use Tax Exclusion Applications Considered To Date

Application Number	Date of Board Consideration	Applicant Name	City	County	Project Type	Use of Proceeds	QP Amount	STE Amount (Anticipated) ¹	STE Used to Date ¹	QP Amount Reported	% Reported	Estimated Environmental Benefit	Estimated Fiscal Benefit ²	Estimated Net Benefit ²	Expected Total Jobs ³	Expected Total Jobs from STE ³	Project Status	
28	15-SM008	7/21/2015	Hi Shear Corporation	Torrance	Los Angeles	Advanced Manufacturing	Specialty Aerospace Fastener Manufacturing	\$ 39,385,000	\$ 3,316,217	\$ 306,366	\$ 3,638,553.00	9%	N/A	\$ 3,432,623	N/A	1,117	43	Active
29	15-SM011	8/18/2015	Orbital ATK, Inc.	Northridge	Los Angeles	Advanced Manufacturing	Defense and Aerospace Manufacturing	\$ 16,275,154	\$ 1,370,368	\$ 531,115	\$ 6,307,778.17	39%	N/A	\$ 3,648,303	N/A	320	10	Active
30	15-SM012	9/15/2015	Rolls-Royce High Temperature Composites, Inc.	Huntington Beach	Orange	Advanced Manufacturing	Composites Manufacturing	\$ 8,728,000	\$ 734,896	\$ 167,506	\$ 1,989,386.97	23%	N/A	\$ 788,866	N/A	105	6	Active
31	15-SM010	10/20/2015	Karma Automotive LLC	Moreno Valley	Riverside	Advanced Manufacturing	Plug-In Hybrid Vehicle Manufacturing	\$ 38,194,860	\$ 3,216,007	\$ 766,585	\$ 9,104,332.48	24%	N/A	\$ 4,025,187	N/A	205	16	Active
32	15-SM014	10/20/2015	Madera Renewable Energy, LLC	Madera	Madera	Alternative Source	Biogas Capture and Production	\$ 1,999,507	\$ 168,358	\$ 152,333	\$ 1,809,185.98	90%	\$ 418,611	\$ 201,299	\$ 451,481	7	1	Active
33	15-SM015	10/20/2015	Hanford Renewable Energy, LLC	Hanford	Kings	Alternative Source	Biogas Capture and Production	\$ 3,748,012	\$ 315,583	\$ 261,349	\$ 3,103,906.73	83%	\$ 974,447	\$ 435,837	\$ 1,084,701	9	1	Active
34	15-SM016	10/20/2015	Space Exploration Technologies Corp.	Hawthorne	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$ 380,169,639	\$ 30,326,284	\$ 5,545,817	\$ 65,884,007.41	18%	N/A	\$ 40,537,040	N/A	4,200	183	Active
35	15-SM017	11/17/2015	Space Systems/Loral LLC	Palo Alto	Santa Clara	Advanced Manufacturing	Aerospace Manufacturing	\$ 5,588,000	\$ 470,341	\$ -	\$ -	0%	N/A	\$ 812,787	N/A	354	3	Active
36	15-SM013	12/15/2015	ABEC #2 LLC	Buttonwillow	Kern	Alternative Source	Biogas Capture and Production	\$ 5,990,614	\$ 504,410	\$ -	\$ -	0%	\$ 180,513	\$ 618,683	\$ 294,966	14	-	Active
37	15-SM020	12/15/2015	Millennium Space Systems, Inc.	El Segundo	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$ 4,284,672	\$ 360,769	\$ 64,921	\$ 771,028.45	18%	N/A	\$ 1,389,088	N/A	55	4	Active
38	16-SM003	1/19/2016	Kite Pharma, Inc.	El Segundo	Los Angeles	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$ 13,763,050	\$ 1,150,849	\$ 609,694	\$ 7,241,016.35	53%	N/A	\$ 5,393,473	N/A	305	18	Active
39	16-SM004	1/19/2016	rPlanet Earth, LLC	Vernon	Los Angeles	Advanced Manufacturing	Plastic Recycling	\$ 119,800,000	\$ 10,087,160	\$ 2,599,943	\$ 89,335,167.26	75%	N/A	\$ 34,955,481	N/A	625	59	Active
40	16-SM005	1/19/2016	Escondido Bioenergy Facility, LLC	Escondido	San Diego	Alternative Source	Biogas Capture and Production	\$ 1,900,000	\$ 159,980	\$ -	\$ -	0%	\$ 28,355	\$ 344,260	\$ 212,635	11	1	Active
41	16-SM006	1/19/2016	California Safe Soil	McClellan	Sacramento	Advanced Manufacturing	Soil Amendments Production	\$ 3,750,000	\$ 315,750	\$ 130,707	\$ 1,552,340.78	41%	N/A	\$ 1,623,748	N/A	22	2	Active
42	16-SM002	2/16/2016	The Gill Corporation and Its Subsidiary, Castle Industries	El Monte, Ontario	Los Angeles, San Bernardino	Advanced Manufacturing	Aerospace Manufacturing	\$ 8,472,000	\$ 713,342	\$ -	\$ -	0%	N/A	\$ 2,371,545	N/A	608	36	Active
43	16-SM008	10/18/2016	Waste Management of Alameda County	San Leandro	Alameda	Recycled Feedstock	Mixed Recycling	\$ 77,272,550	\$ 6,506,349	\$ 271,050	\$ 3,219,124.11	4%	\$ 141,898	\$ 8,381,777	\$ 2,817,327	144	20	Active
44	16-SM009	10/18/2016	Waste Management Recycling and Disposal Services of California, Inc.	Sun Valley	Los Angeles	Recycled Feedstock	Mixed Organics	\$ 3,500,000	\$ 294,700	\$ 161,591	\$ 1,919,133.00	55%	\$ 8,008	\$ 568,386	\$ 281,694	37	1	Active
45	16-SM011	10/18/2016	SANCO Services, LP	Escondido	San Diego	Recycled Feedstock	Mixed Recycling	\$ 24,190,000	\$ 2,036,792	\$ 1,441,243	\$ 17,116,896.19	71%	\$ 91,615	\$ 3,306,064	\$ 1,360,861	112	12	Active
46	16-SM013	10/18/2016	Recology San Francisco	San Francisco	San Francisco	Recycled Feedstock	Mixed Recycling	\$ 7,917,170	\$ 666,626	\$ -	\$ -	0%	\$ 16,789	\$ 701,902	\$ 52,065	127	8	Active
47	16-SM015	10/18/2016	CRM Co., LLC.	Stockton	San Joaquin	Recycled Feedstock	Crumb Tire Rubber	\$ 3,400,000	\$ 286,280	\$ -	\$ -	0%	\$ 5,872	\$ 1,015,541	\$ 735,133	32	2	Active
48	16-SM017	10/18/2016	Mid-Valley Disposal	Fresno	Fresno	Recycled Feedstock	Mixed Recycling	\$ 6,821,909	\$ 574,405	\$ 506,346	\$ 6,056,775.70	89%	\$ 29,922	\$ 592,293	\$ 47,611	54	5	Active
49	16-SM018	10/18/2016	Mid-Valley Disposal	Kerman	Fresno	Recycled Feedstock	Mixed Organics	\$ 3,739,543	\$ 314,870	\$ 226,279	\$ 2,701,648.25	72%	\$ 12,990	\$ 275,785	\$ (26,094)	24	3	Active
50	16-SM019	10/18/2016	MSB Investors, LLC	Santa Barbara	Santa Barbara	Recycled Feedstock	Mixed Recycling	\$ 32,403,272	\$ 2,728,356	\$ -	\$ -	0%	\$ 80,208	\$ 2,985,127	\$ 336,900	75	11	Active
51	16-SM021	11/15/2016	GreenWaste Recovery, Inc.	San Jose	Santa Clara	Recycled Feedstock	Mixed Recycling and Organics	\$ 4,438,683	\$ 375,421	\$ 129,037	\$ 1,532,510.72	34%	\$ 8,008	\$ 568,386	\$ 544,904	26	2	Active
52	16-SM026	12/13/2016	XT Green, Inc.	Corona	Riverside	Advanced Manufacturing	Advanced Carpet Recycling	\$ 8,970,500	\$ 755,316	\$ 87,265	\$ 1,036,400.00	12%	N/A	\$ 2,260,835	N/A	84	15	Active
53	16-SM031	12/13/2016	Edinger Biodiesel Inc.	Fresno	Fresno	Alternative Source	Biomass Processing and Fuel Production	\$ 8,394,385	\$ 706,807	\$ -	\$ -	0%	\$ 570,932	\$ 2,291,152	\$ 2,155,277	34	2	Active
54	16-SM033	12/13/2016	ABEC #3 LLC dba Lake View Farms Dairy Biogas	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$ 2,401,884	\$ 202,239	\$ 167,292	\$ 1,986,842.18	83%	\$ 33,640	\$ 311,256	\$ 142,657	25	3	Active
55	16-SM034	12/13/2016	ABEC #4 LLC dba CE&S Dairy Biogas	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$ 2,701,502	\$ 227,467	\$ 34,058	\$ 404,485.94	15%	\$ 57,815	\$ 506,604	\$ 337,152	24	4	Active
56	16-SM036	12/13/2016	Tesla Motors, Inc.	Fremont	Alameda	Advanced Transportation	Electric Vehicle Manufacturing	\$ 560,917,080	\$ 47,229,218	\$ -	\$ -	0%	\$ 7,883,861	\$ 46,343,056	\$ 6,997,699	1,559	79	Active
57	16-SM037	12/13/2016	Gilead Sciences, Inc.	La Verne	Los Angeles	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$ 51,645,674	\$ 4,348,566	\$ 3,365,949	\$ 39,975,641.00	77%	N/A	\$ 3,908,387	N/A	746	48	Active

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58	17-SM001	1/17/2017	North Fork Community Power	North Fork	Madera	Alternative Source	Biomass Processing and Fuel Production	\$ 6,819,733	\$ 574,222	\$ 230,390	\$ 2,736,317.00	40%	\$ 267,774	\$ 940,730	\$ 643,263	24	3	Active
59	17-SM002	1/17/2017	Atara Biotherapeutics, Inc.	Thousand Oaks	Ventura	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$ 16,285,217	\$ 1,371,215	\$ -	\$ -	0%	N/A	\$ 8,830,079	N/A	103	6	Active
60	17-SM003	1/17/2017	Tesla Motors, Inc.	Fremont	Alameda	Advanced Transportation	Electric Vehicle Manufacturing	\$ 287,322,328	\$ 24,192,540	\$ -	\$ -	0%	\$ 2,796,551	\$ 20,997,523	\$ (398,467)	1,011	43	Active
61	17-SM007	2/21/2017	BYD Coach & Bus LLC	Lancaster	Los Angeles	Advanced Transportation	Electric Bus Manufacturing	\$ 3,189,014	\$ 268,515	\$ 104,660	\$ 1,242,991.30	39%	\$ 1,728,190	\$ 11,841,232	\$ 13,300,915	1,279	33	Active
62	17-SM011	2/21/2017	HZIU Kompogas SLO inc.	San Luis Obispo	San Luis Obispo	Alternative Source	Biomass Processing and Fuel Production	\$ 7,104,020	\$ 598,158	\$ 852	\$ 10,119.00	0%	\$ 38,784	\$ 529,337	\$ (30,037)	33	5	Active
63	17-SM016	3/21/2017	Colony Energy Partners-Tulare, LLC	Tulare	Tulare	Alternative Source	Biomass Processing and Fuel Production	\$ 20,800,000	\$ 1,751,360	\$ -	\$ -	0%	\$ 581,721	\$ 2,675,765	\$ 1,506,126	49	7	Active
64	17-SM017	3/21/2017	FoodService Partners, LLC	Richmond	Contra Costa	Advanced Manufacturing	Advanced Food Production	\$ 8,500,000	\$ 715,700	\$ --	\$ -	0%	N/A	\$ 6,165,933	N/A	240	15	Active
65	17-SM018	3/21/2017	Calgren Dairy Fuels, LLC	Pixley	Tulare	Alternative Source	Biomass Processing and Fuel Production	\$ 20,373,200	\$ 1,713,423	\$ -	\$ -	0%	\$ 1,627,153	\$ 2,424,238	\$ 2,335,968	68	12	Active
66	17-SM009	4/18/2017	Best Express Foods, Inc.	Stockton	San Joaquin	Advanced Manufacturing	Advanced Food Production	\$ 3,502,976	\$ 294,951	\$ 209,632	\$ 2,493,604.00	71%	N/A	\$ 1,185,647	N/A	78	4	Active
67	17-SM019	4/18/2017	ChargePoint Inc.	Campbell	Santa Clara	Advanced Manufacturing	Electric Vehicle Charging Station Production	\$ 1,660,000	\$ 139,772	\$ -	\$ -	0%	N/A	\$ 341,105	N/A	35	3	Active
68	17-SM020	4/18/2017	CALAMCO NH3 LLC	Taft	Kern	Advanced Manufacturing	Fertilizer Production	\$ 107,607,827	\$ 9,060,579	\$ -	\$ -	0%	N/A	\$ 16,925,300	N/A	84	11	Active
69	17-SM022	5/16/2017	SJV Biodiesel, LLC	Pixley	Tulare	Alternative Source	Biodiesel Production	\$ 6,800,800	\$ 562,507	\$ -	\$ -	0%	\$ 207,262	\$ 2,711,361	\$ 2,436,136	20	2	Active
70	17-SM043	5/16/2017	Boehringer Ingelheim Fremont, Inc.	Fremont	Alameda	Advanced Manufacturing	Biopharmaceutical Manufacturing	\$ 214,040,464	\$ 18,022,209	\$ -	\$ -	0%	N/A	\$ 58,787,003	N/A	747	14	Active
71	17-SM006	6/20/2017	CR&R Incorporated	Lakeside and Perris	Riverside	Alternative Source	Biomass Processing and Fuel Production	\$ 11,610,900	\$ 977,636	\$ -	\$ -	0%	\$ 187,531	\$ 888,838	\$ 98,731	47	6	Active
72	17-SM021	6/20/2017	Advance International Inc.	Livermore	Alameda	Advanced Manufacturing	Advanced Food Production	\$ 2,283,000	\$ 192,229	\$ -	\$ -	0%	N/A	\$ 884,553	N/A	98	6	Active
73	17-SM023	6/20/2017	Organic Energy Solutions	San Bernardino	San Bernardino	Alternative Source	Biomass Processing and Fuel Production	\$ 24,440,000	\$ 2,057,843	\$ 94,160	\$ 1,118,284.00	5%	\$ 602,601	\$ 1,552,332	\$ 97,085	106	17	Active
74	17-SM042	6/20/2017	Aranda Tooling, Inc.	Chino	San Bernardino	Advanced Manufacturing	Tooling and Metal Stamping	\$ 10,035,231	\$ 844,966	\$ -	\$ -	0%	N/A	\$ 6,607,393	N/A	180	11	Active
75	17-SM044	6/20/2017	Sunergy California LLC	McClellan	Sacramento	Alternative Source	Solar Photovoltaic Manufacturing	\$ 7,823,286	\$ 658,721	\$ 154,062	\$ 1,842,852.63	24%	\$ 2,877,987	\$ 3,761,032	\$ 5,960,298	195	12	Active
76	17-SM045	6/20/2017	U.S. Corrugated of Los Angeles, Inc.	Cerritos	Los Angeles	Advanced Manufacturing	Corrugated Packaging Manufacturing	\$ 5,834,792	\$ 491,289	\$ 168,775	\$ 2,004,447.92	34%	N/A	\$ 2,325,511	N/A	95	9	Active
77	17-SM047	6/20/2017	Crimson Renewable Energy, LP	Bakersfield	Kern	Alternative Source	Biodiesel Production	\$ 21,833,100	\$ 1,838,347	\$ -	\$ -	0%	\$ 641,781	\$ 7,253,563	\$ 6,056,996	62	6	Active
78	17-SM048	6/20/2017	Tracy Renewable Energy, LLC	Tracy	San Joaquin	Alternative Source	Ethanol Production	\$ 52,246,456	\$ 4,399,152	\$ -	\$ -	0%	\$ 1,620,925	\$ 15,913,811	\$ 13,135,585	97	10	Active
79	17-SM049	6/20/2017	Cicular Polymers LLC	Lincoln	Placer	Advanced Manufacturing	Advanced Carpet Recycling	\$ 7,546,500	\$ 635,584	\$ -	\$ -	0%	N/A	\$ 1,177,470	N/A	78	6	Active
80	17-SM050	6/20/2017	eco.logic brands, inc.	Manteca	San Joaquin	Advanced Manufacturing	Recycled Paper Bottles Manufacturing	\$ 6,944,000	\$ 584,685	\$ -	\$ -	0%	N/A	\$ 757,657	N/A	68	5	Active
81	17-SM051	6/20/2017	Schlusser Forge Company	Rancho Cucamonga	San Bernardino	Advanced Manufacturing	Aero Engine Ring Forging	\$ 53,568,357	\$ 4,510,456	\$ -	\$ -	0%	N/A	\$ 4,530,814	N/A	263	17	Active
82	17-SM046	7/18/2017	Pacific Ethanol Stockton, LLC	Stockton	San Joaquin	Alternative Source	Biogas Capture and Production	\$ 5,932,500	\$ 499,517	\$ -	\$ -	0%	\$ 273,362	\$ 693,533	\$ 467,378	31	5	Active
83	17-SM052	7/18/2017	Sanitation Districts of Los Angeles County	Whittier and Carson	Los Angeles	Alternative Source	Biomass Processing and Fuel Production	\$ 11,928,310	\$ 1,004,364	\$ -	\$ -	0%	\$ 95,175	\$ 2,099,961	\$ 1,190,772	41	4	Active
84	17-SM053	7/18/2017	Recology San Francisco	San Francisco	San Francisco	Recycled Feedstock	Mixed Recycling	\$ 3,633,145	\$ 305,911	\$ -	\$ -	0%	\$ 6,194	\$ 259,894	\$ 60,177	119	3	Active
85	17-SM010	8/15/2017	Verdeco Recycling, Inc.	South Gate	Los Angeles	Advanced Manufacturing	Recycled PET Food Packaging	\$ 4,940,350	\$ 415,977	\$ -	\$ -	0%	N/A	\$ 1,699,834	\$ -	8	1	Active
86	17-SM054	8/15/2017	AMRO Fabricating Corporation	South El Monte	Los Angeles	Advanced Manufacturing	Aerospace Manufacturing	\$ 5,120,000	\$ 431,104	\$ -	\$ -	0%	N/A	\$ 611,847	\$ -	92	7	Active

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87	17-SM008	9/19/2017	Aemerge RedPac Services Southern California, LLC	Hesperia	San Bernardino	vanced Manufactur	Medical Waste Recycling	\$ 37,000,676	\$ 3,115,457	\$ -	-	0%	N/A	\$ 3,399,447	N/A	55	9	Active
88	17-SM013	9/19/2017	Peptide Laboratories,	Torrance	Los Angeles	vanced Manufactur	Peptide Pharmaceutical Manufacturing	\$ 12,750,000	\$ 1,073,550	\$ -	-	0%	N/A	\$ 1,026,253	N/A	240	7	Active
89	17-SM055	9/19/2017	National Steel and Shipbuilding Company	San Diego	San Diego	vanced Manufactur	Thin Steel Plate Manufacturing	\$ 40,500,000	\$ 3,410,100	\$ -	-	0%	N/A	\$ 8,549,758	N/A	5,220	72	Active
90	17-SM057	9/19/2017	Lollicup USA, Inc.	Chino	San Bernardino	vanced Manufactur	Food Grade Recycled Packaging Manufacturing	\$ 10,345,200	\$ 871,066	\$ -	-	0%	N/A	\$ 4,455,345	N/A	396	9	Active
91	17-SM058	10/17/2017	SunLine Transit Agency	Thousand Palms	Riverside	Alternative Source	Renewable Hydrogen Production	\$ 7,000,000	\$ 589,400	\$ -	-	0%	\$ 23,821	\$ 720,765	\$ 155,186	4	1	Active
92	17-SM059	10/17/2017	CalPlant I, LLC	Willows	Glenn	Advanced Manufacturing	Medium Density Fiberboard Manufacturing	\$ 92,278,983	\$ 7,769,890	\$ -	-	0%	N/A	\$ 15,697,094	N/A	412	31	Active
93	17-SM060	10/17/2017	QuantumScope Corporation	San Jose	Santa Clara	Advanced Manufacturing	Electric Vehicle Battery Manufacturing	\$ 18,243,000	\$ 1,536,061	\$ 196,893	\$ 2,355,181.35	13%	N/A	\$ 1,213,783	N/A	135	12	Active
94	17-SM061	11/14/2017	Ontario CNG Station, Inc.	Ontario	San Bernardino	Alternative Source	Renewable Hydrogen Production	\$ 2,000,000	\$ 168,400	\$ 153,833	\$ 1,827,000.00	91%	\$ 3,715	\$ 260,821	\$ 96,136	13	2	Active
95	17-SM062	11/14/2017	Trademark Brewing, LLC	Long Beach	Los Angeles	Advanced Manufacturing	Beverage Production	\$ 1,854,741	\$ 156,169	\$ -	-	0%	N/A	\$ 608,675	\$ 808,675	50	4	Active
96	17-SM063	11/14/2017	CR&R Incorporated	Stanton	Orange	Recycled Resource Extraction	Mixed Organics	\$ 8,389,685	\$ 706,411	\$ -	-	0%	\$ 42,700	\$ 1,438,924	\$ 775,213	34	2	Active
97	17-SM056	12/19/2017	TBC-The Boring Company	Hawthorne	Los Angeles	Advanced Manufacturing	Specialized Concrete Ring Manufacturing	\$ 3,160,000	\$ 266,072	\$ -	-	0%	N/A	\$ 2,365,590	N/A	24	1	Active
98	17-SM064	12/19/2017	WIE-4GRON Bioenergy, LLC	Watsonville	Santa Cruz	Alternative Source	Biodiesel Production	\$ 3,500,000	\$ 294,700	\$ 162,460	\$ 1,943,304.23	56%	\$ 116,974	\$ 909,611	\$ 731,885	18	1	Active
99	17-SM065	12/19/2017	Sila Nanotechnologies, Inc.	Alameda	Alameda	Advanced Manufacturing	Silicon Anode Powder Manufacturing	\$ 11,018,845	\$ 927,767	\$ -	-	0%	N/A	\$ 916,068	N/A	123	10	Active
103	10-SM002	11/17/2010	ABEC Bidart Stockdale, LLC	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$ 1,131,584	\$ 102,974	\$ 90,622	\$ 1,118,793.65	99%	\$ 228,808	\$ 73,809	\$ 199,643	26	3	Complete
104	10-SM004	11/17/2010	First Solar, Inc.	Santa Clara	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$ 37,700,000	\$ 3,430,700	\$ 3,409,567	\$ 37,692,991.15	100%	\$ 1,668,971	\$ 1,971,559	\$ 209,831	174	17	Complete
105	10-SM013	11/17/2010	NuvoSun Incorporated	Milpitas	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$ 20,000,000	\$ 1,820,000	\$ 1,736,128	\$ 19,996,322.73	100%	\$ 2,137,232	\$ 2,594,509	\$ 2,911,741	160	16	Complete
106	10-SM012	12/15/2010	SunPower Corporation	Milpitas	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$ 8,000,000	\$ 728,000	\$ 704,816	\$ 7,745,227.00	97%	\$ 903,595	\$ 1,877,730	\$ 2,053,325	94	11	Complete
107	10-SM020	12/15/2010	Ameresco Butte County LLC	Paradise	Butte	Alternative Source	Landfill Gas Capture and Production	\$ 1,085,554	\$ 98,785	\$ 62,105	\$ 759,409.60	70%	\$ 71,701	\$ 185,955	\$ 158,870	12	1	Complete
108	10-SM022	12/15/2010	Ameresco Forward LLC	Manteca	San Joaquin	Alternative Source	Landfill Gas Capture and Production	\$ 2,227,596	\$ 202,711	\$ 119,409	\$ 1,447,555.97	65%	\$ 37,823	\$ 277,169	\$ 112,281	11	1	Complete
109	10-SM023	12/15/2010	Ameresco Johnson Canyon LLC	Gonzales	Monterey	Alternative Source	Landfill Gas Capture and Production	\$ 766,293	\$ 69,733	\$ 53,372	\$ 658,910.18	86%	\$ 33,124	\$ 168,912	\$ 132,303	12	1	Complete
110	10-SM024	12/15/2010	Ameresco San Joaquin LLC	Linden	San Joaquin	Alternative Source	Landfill Gas Capture and Production	\$ 1,723,486	\$ 156,837	\$ 113,649	\$ 1,378,738.49	80%	\$ 99,894	\$ 419,234	\$ 362,292	12	1	Complete
111	10-SM025	12/15/2010	Ameresco Vasco Road LLC	Livermore	Alameda	Alternative Source	Landfill Gas Capture and Production	\$ 1,828,204	\$ 166,367	\$ 112,036	\$ 1,358,330.76	74%	\$ 66,258	\$ 333,415	\$ 233,306	11	1	Complete
112	10-SM026	12/15/2010	BioFuels Point Loma, LLC	San Diego	San Diego	Alternative Source	Wastewater Treatment Biogas Capture and Production	\$ 6,236,024	\$ 567,478	\$ 449,162	\$ 5,512,427.97	88%	\$ 120,126	\$ 508,292	\$ 61,939	25	3	Complete
113	10-SM028	12/15/2010	California Institute of Technology	Pasadena	Los Angeles	Alternative Source	Research & Development of Solar Fuel Generator Systems	\$ 13,400,000	\$ 1,219,400	\$ 996,694	\$ 11,899,375.73	89%	\$ -	\$ 702,662	\$ (516,738)	133	15	Complete

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114	11-SM001	1/25/2011	Leyden Energy, Inc.	Fremont	Alameda	Advanced Transportation	Lithium Ion Battery Manufacturing	\$ 1,306,525	\$ 118,094	\$ 99,647	\$ 1,213,372.59	93%	\$ 21,400	\$ 944,754	\$ 847,260	26	2	Complete
115	11-SM003	1/25/2011	Alameda-Contra Costa Transit District	Emeryville	Alameda	Alternative Source	Demonstration Hydrogen Fuel Production	\$ 5,387,950	\$ 490,303	\$ 362,320	\$ 4,473,087.00	83%	\$ 16,040	\$ 274,173	\$ (200,090)	6	1	Complete
116	11-SM008	3/22/2011	Mt. Poso Cogeneration Company, LLC	Bakersfield	Kern	Alternative Source	Biomass Processing and Fuel Production	\$ 14,374,000	\$ 1,308,034	\$ 1,164,294	\$ 14,373,999.93	100%	\$ 197,027	\$ 3,470,273	\$ 2,359,266	97	11	Complete
117	11-SM009	6/28/2011	DTE Stockton, LLC	Stockton	San Joaquin	Alternative Source	Biomass Processing and Fuel Production	\$ 10,120,000	\$ 920,920	\$ 823,638	\$ 10,119,999.91	100%	\$ 2,221,793	\$ 4,297,636	\$ 5,598,509	62	7	Complete
118	11-SM010	7/26/2011	SCS Energy	Fresno	Fresno	Alternative Source	Biogas Capture and Production	\$ 3,155,300	\$ 255,578	\$ 247,020	\$ 3,049,631.77	97%	\$ 40,230	\$ 271,233	\$ 55,884	9	1	Complete
119	11-SM019	11/15/2011	Zero Waste Energy Development Company, LLC	San Jose	Santa Clara	Alternative Source	Biogas Capture and Production	\$ 17,156,875	\$ 1,389,707	\$ 942,179	\$ 11,273,784.04	66%	\$ 1,355,423	\$ 2,233,575	\$ 2,199,291	174	17	Complete
120	11-SM016	12/13/2011	Tesla Motors, Inc.	Fremont; Hawthorne; Palo Alto; Menlo Park	Alameda; Los Angeles; Santa Clara; San Mateo	Advanced Transportation	Electric Vehicle Manufacturing	\$ 292,000,000	\$ 23,652,000	\$ 24,546,045	\$ 291,889,530.09	100%	\$ 2,386,636	\$ 35,023,610	\$ 13,758,246	1,237	108	Complete
121	12-SM003	3/20/2012	Stion Corporation	San Jose	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$ 6,417,810	\$ 519,843	\$ 490,542	\$ 6,056,069.00	94%	\$ 277,896	\$ 253,546	\$ 11,600	28	3	Complete
122	12-SM004	5/15/2012	Soitec Solar Industries LLC	San Diego	San Diego	Alternative Source	Concentrated Photovoltaic Manufacturing	\$ 104,381,342	\$ 8,454,889	\$ 7,351,987	\$ 90,047,264.86	86%	\$ 3,706,841	\$ 10,302,813	\$ 5,554,765	399	44	Complete
123	12-SM006	5/15/2012	John Galt Biogas Inc.	Galt	Sacramento	Alternative Source	Biogas Capture and Production	\$ 1,025,769	\$ 83,087	\$ 61,712	\$ 735,018.76	72%	\$ 112,933	\$ 128,931	\$ 158,777	19	2	Complete
124	12-SM007	5/15/2012	Reflexite Soitec Optical Technology LLC	San Diego	San Diego	Alternative Source	Concentrated Photovoltaic Manufacturing	\$ 24,500,000	\$ 1,984,500	\$ 2,005,024	\$ 24,200,004.00	89%	\$ 357,750	\$ 1,704,725	\$ 77,875	114	8	Complete
125	12-SM008	6/19/2012	North Star Biofuels LLC	Watsonville	Santa Cruz	Alternative Source	Biodiesel Production	\$ 4,115,500	\$ 343,866	\$ 343,220	\$ 4,115,500.00	100%	\$ 84,522	\$ 2,616,810	\$ 2,367,976	30	1	Complete
126	12-SM009	10/16/2012	ABEC New Hope LLC	Galt	Sacramento	Alternative Source	Biogas Capture and Production	\$ 2,633,359	\$ 213,302	\$ 84,096	\$ 1,004,734.92	38%	\$ 41,150	\$ 208,573	\$ 36,421	22	3	Complete
127	12-SM012	11/13/2012	Zero Waste Energy, LLC	Marina	Monterey	Alternative Source	Biogas Capture and Production	\$ 1,187,000	\$ 96,147	\$ 94,295	\$ 1,126,586.53	95%	\$ 18,139	\$ 95,062	\$ 17,054	5	1	Complete
128	13-SM001	1/15/2013	CleanWorx	Davis	Yolo	Alternative Source	Biomass Processing and Fuel Production	\$ 5,851,298	\$ 489,754	\$ 459,934	\$ 5,462,393.90	95%	\$ 106,583	\$ 506,088	\$ 122,923	24	3	Complete
129	13-SM007	6/18/2013	ABEC Bidart-Old River, LLC	Bakersfield	Kern	Alternative Source	Biomass Capture and Production	\$ 6,254,045	\$ 523,464	\$ 328,667	\$ 3,926,731.88	63%	\$ 351,613	\$ 523,038	\$ 351,188	28	2	Complete
130	13-SM009	8/20/2013	North State Rendering Co Inc.	Oroville	Butte	Alternative Source	Biomass Processing and Fuel Production	\$ 7,355,324	\$ 615,641	\$ 619,318	\$ 7,355,324.00	100%	\$ 305,075	\$ 422,917	\$ 112,351	12	2	Complete
131	13-SM010	9/17/2013	Central Valley Ag Power, LLC	Oakdale	Stanislaus	Alternative Source	Biomass Processing and Fuel Production	\$ 3,481,313	\$ 291,386	\$ 293,077	\$ 3,480,725.29	100%	\$ 38,218	\$ 394,801	\$ 141,634	23	2	Complete
132	13-SM011	10/15/2013	Blue Line Transfer, Inc.	S. San Francisco	San Mateo	Alternative Source	Biomass Processing and Fuel Production	\$ 4,976,489	\$ 416,530	\$ 326,788	\$ 3,881,088.00	78%	\$ 43,980	\$ 423,841	\$ 51,291	20	3	Complete
133	13-SM015	12/17/2013	Tesla Motors, Inc.	Fremont, Palo Alto, Hawthorne	Alameda, Santa Clara, Los Angeles	Advanced Transportation	Electric Vehicle Manufacturing	\$ 415,000,000	\$ 34,735,500	\$ 34,929,532	\$ 414,840,044.17	100%	\$ 4,847,406	\$ 54,306,869	\$ 24,410,775	2,050	115	Complete
134	14-SM021	1/20/2015	Pacific Ethanol Madera, LLC	Madera	Madera	Advanced Manufacturing	Corn Oil Production	\$ 4,763,500	\$ 401,087	\$ 271,375	\$ 3,222,977.51	68%	N/A	\$ 988,793	N/A	3	-	Complete
135	14-SM023	1/20/2015	WM Renewable Energy, LLC	Novato	Marin	Alternative Source	Biogas Capture and Production	\$ 2,004,360	\$ 168,767	\$ 168,072	\$ 1,996,101.96	100%	\$ 71,130	\$ 347,143	\$ 249,507	19	1	Complete
136	15-SM006	4/21/2015	California Renewable Power, LLC	Perris	Riverside	Alternative Source	Biogas Capture and Production	\$ 13,079,755	\$ 1,101,315	\$ 934,815	\$ 13,079,755.00	100%	\$ 137,797	\$ 1,839,848	\$ 876,329	48	4	Complete
137	15-SM005	6/16/2015	U.S. Corrugated of Los Angeles, Inc.	Santa Fe Springs	Los Angeles	Advanced Manufacturing	Corrugated Packaging Manufacturing	\$ 23,969,087	\$ 2,018,197	\$ 2,018,197	\$ 23,969,087.00	100%	N/A	\$ 7,825,890	N/A	160	13	Complete
138	15-SM009	7/21/2015	Las Gallinas Valley Sanitary District	San Rafael	Marin	Alternative Source	Biogas Capture and Production	\$ 788,757	\$ 66,413	\$ 66,413	\$ 788,757.00	100%	\$ 10,707	\$ 44,765	\$ (10,941)	7	-	Complete

Appendix A: Sales And Use Tax Exclusion Applications Considered To Date

Application Number	Date of Board Consideration	Applicant Name	City	County	Project Type	Use of Proceeds	QP Amount	STE Amount (Anticipated) ¹	STE Used to Date ¹	QP Amount Reported	% Reported	Estimated Environmental Benefit	Estimated Fiscal Benefit ²	Estimated Net Benefit ³	Expected Total Jobs ²	Expected Total Jobs from STE ²	Project Status	
139	15-SM024	12/15/2015	Tesla Motors, Inc.	Fremont; Hawthorne; Palo Alto; Menlo Park; Lathrop	Alameda; Los Angeles; Santa Clara; San Mateo; San Joaquin	Advanced Transportation	Electric Vehicle Manufacturing	\$ 463,625,000	\$ 39,037,225	\$ 33,172,732	\$ 463,622,419.75	100%	\$ 4,766,289	\$ 61,843,129	\$ 27,572,193	1,439	41	Complete
140	16-SM014	10/18/2016	Monterey Regional Waste Management District	Marina	Monterey	Recycled Feedstock	Mixed Recycling	\$ 11,401,677	\$ 960,021	\$ 960,021	\$ 11,401,677.00	100%	\$ 44,567	\$ 1,310,429	\$ 394,975	35	4	Complete
141	10-SM001	11/17/2010	Bowerman Power LFG, LLC	Irvine	Orange	Alternative Source	Landfill Gas Capture & Production	\$ 9,240,000	\$ 840,840	\$ -	\$ -	0%	\$ 398,492	\$ 1,008,052	\$ 565,704	30	3	Inactive
142	10-SM003	11/17/2010	ABEC Bidart Old River, LLC	Bakersfield	Kern	Alternative Source	Biogas Capture and Production	\$ 4,736,000	\$ 431,158	\$ -	\$ -	0%	\$ 3,080,606	\$ 436,644	\$ 3,080,491	50	6	Inactive
143	10-SM005	11/17/2010	Gallo Cattle Company	Atwater	Merced	Alternative Source	Biogas Capture and Production	\$ 1,245,000	\$ 113,295	\$ -	\$ -	0%	\$ 791,959	\$ 130,374	\$ 609,036	30	3	Inactive
144	10-SM006	11/17/2010	Solyndra LLC	Fremont	Alameda	Alternative Source	Solar Photovoltaic Manufacturing	\$ 381,776,000	\$ 34,741,616	\$ 25,127,322	\$ 277,309,757.00	73%	\$ 22,202,363	\$ 20,765,274	\$ 8,226,021	2,004	225	Inactive
145	10-SM007	11/17/2010	The Solaria Corporation	Fremont	Alameda	Alternative Source	Solar Photovoltaic Manufacturing	\$ 7,800,000	\$ 709,900	\$ 375,885	\$ 4,474,134.55	57%	\$ 634,403	\$ 1,564,665	\$ 1,689,268	180	17	Inactive
146	10-SM009	11/17/2010	Nanosolar Inc.	San Jose	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$ 140,107,900	\$ 12,757,099	\$ 4,306,412	\$ 53,035,063.31	38%	\$ 10,527,415	\$ 6,992,728	\$ 4,763,045	410	36	Inactive
147	10-SM011	11/17/2010	Stion Corporation	San Jose	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$ 105,473,402	\$ 9,598,080	\$ -	\$ -	0%	\$ 3,512,324	\$ 6,207,404	\$ 121,648	483	47	Inactive
148	10-SM014	11/17/2010	Calisolar Inc.	Sunnyvale	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$ 39,000,000	\$ 3,549,000	\$ -	\$ -	0%	\$ 1,971,609	\$ 1,975,797	\$ 398,407	273	13	Inactive
149	10-SM010	12/15/2010	Symbol, Inc.	Calipatria; Niland; Brawley	Imperial	Alternative Source	Lithium and Battery Material Manufacturing	\$ 42,484,174	\$ 3,866,060	\$ 164,278	\$ 1,938,796.34	5%	\$ 558,363	\$ 9,552,414	\$ 6,244,717	212	23	Inactive
150	10-SM016	12/15/2010	Quantum Fuel Systems Technologies Worldwide, Inc.	Irvine	Orange	Alternative Source	Solar Photovoltaic Manufacturing	\$ 8,945,838	\$ 814,073	\$ -	\$ -	0%	\$ 508,262	\$ 5,695,571	\$ 5,589,780	94	11	Inactive
151	10-SM018	12/15/2010	Green Vehicles, Inc.	Salinas	Monterey	Advanced Transportation	Electric Vehicle Manufacturing	\$ 3,708,050	\$ 337,433	\$ -	\$ -	0%	\$ 65,608	\$ 3,018,494	\$ 2,746,669	126	14	Inactive
152	10-SM019	12/15/2010	Soliant Energy, Inc.	Monrovia	Los Angeles	Alternative Source	Solar Photovoltaic Manufacturing	\$ 9,966,500	\$ 906,952	\$ -	\$ -	0%	\$ 1,142,989	\$ 1,709,894	\$ 1,945,932	38	5	Inactive
153	10-SM021	12/15/2010	SCE Crazy Horse LLC	Salinas	Monterey	Alternative Source	Landfill Gas Capture and Production	\$ 1,558,460	\$ 141,820	\$ -	\$ -	0%	\$ 103,093	\$ 432,228	\$ 393,501	12	1	Inactive
154	10-SM027	12/15/2010	Alta Devices, Inc.	Sunnyvale	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$ 40,845,000	\$ 3,716,895	\$ 1,108,616	\$ 13,653,537.60	33%	\$ 561,404	\$ 5,025,666	\$ 1,870,175	322	37	Inactive
155	11-SM002	1/25/2011	MiaSolé	Sunnyvale	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$ 26,092,000	\$ 2,374,372	\$ 881,599	\$ 10,883,941.14	42%	\$ 3,246,664	\$ 1,363,913	\$ 2,236,206	56	3	Inactive
156	11-SM007	5/18/2011	Amonix, Inc.	Seal Beach	Orange	Alternative Source	Solar Photovoltaic Manufacturing	\$ 2,278,900	\$ 207,380	\$ -	\$ -	0%	\$ 244,895	\$ 557,789	\$ 595,304	153	2	Inactive
157	11-SM014	8/23/2011	SoloPower Inc.	San Jose	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$ 8,411,240	\$ 661,310	\$ 494,484	\$ 6,104,736.00	73%	\$ 419,024	\$ 575,484	\$ 313,197	40	1	Inactive
158	11-SM015	8/23/2011	Amonix, Inc.	Seal Beach; Milpitas	Orange; Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$ 7,879,667	\$ 638,253	\$ -	\$ -	0%	\$ 740,148	\$ 2,884,021	\$ 2,985,916	200	12	Inactive
159	12-SM010	10/16/2012	Electric Vehicles International, LLC	Stockton	San Joaquin	Advanced Transportation	Electric Vehicle Manufacturing	\$ 5,744,962	\$ 465,342	\$ 256,836	\$ 3,170,809.00	55%	\$ 83,283	\$ 906,571	\$ 524,512	114	8	Inactive
160	13-SM004	4/16/2013	El Harrison and Sons Rentals, Inc.	Oxnard	Ventura	Alternative Source	Biogas Capture and Production	\$ 1,212,095	\$ 101,452	\$ -	\$ -	0%	\$ 19,311	\$ 108,487	\$ 26,345	6	1	Inactive
161	14-SM002	3/18/2014	CleanWorld	San Bernardino	San Bernardino	Alternative Source	Biomass Processing and Fuel Production	\$ 6,698,715	\$ 564,032	\$ -	\$ -	0%	\$ 163,485	\$ 858,211	\$ 457,665	26	3	Inactive
162	14-SM014	8/19/2014	Mendota Bioenergy, LLC	Mendota	Fresno	Alternative Source	Biogas Capture and Production	\$ 2,200,000	\$ 185,240	\$ 10,045	\$ 119,300.00	5%	\$ 165,281	\$ 304,456	\$ 285,037	40	2	Inactive
163	14-SM013	9/16/2014	Lockheed Martin Corporation	Palmdale, Helendale	Los Angeles, San Bernardino	Advanced Manufacturing	Aerospace Manufacturing	\$ 345,296,354	\$ 29,073,953	\$ -	\$ -	0%	N/A	\$ 38,053,138	N/A	1,213	91	Inactive
164	14-SM019	10/21/2014	Solevel, Inc.	Milpitas	Santa Clara	Alternative Source	Solar Photovoltaic Manufacturing	\$ 20,500,000	\$ 1,726,100	\$ 1,726,100	\$ 20,500,000.00	100%	\$ 1,261,678	\$ 475,809	\$ 11,387	128	11	Inactive
165	14-SM024	3/17/2015	Hass Automation, Inc.	Oxnard	Ventura	Advanced Manufacturing	CNC Machine Manufacturing	\$ 81,426,200	\$ 6,856,086	\$ -	\$ -	0%	N/A	\$ 38,174,218	N/A	1,235	51	Inactive
166	15-SM004	6/16/2015	T2Energy, LLC	Vista	San Diego	Advanced Manufacturing	Omega Oil Production	\$ 4,737,500	\$ 398,898	\$ -	\$ -	0%	N/A	\$ 1,881,353	N/A	48	3	Inactive
167	16-SM001	1/19/2016	Atieva USA Inc	Menlo Park; Tracy; Sacramento	San Mateo; San Joaquin; Sacramento	Advanced Transportation	Electric Vehicle Manufacturing	\$ 530,750,000	\$ 44,689,150	\$ -	\$ -	0%	\$ 5,593,675	\$ 137,469,584	\$ 98,374,109	1,547	96	Inactive

Appendix A: Sales And Use Tax Exclusion Applications Considered To Date

Application Number	Date of Board Consideration	Applicant Name	City	County	Project Type	Use of Proceeds	QP Amount	STE Amount (Anticipated) ¹	STE Used to Date ¹	QP Amount Reported	% Reported	Estimated Environmental Benefit ²	Estimated Fiscal Benefit ²	Estimated Net Benefit ²	Expected Total Jobs ³	Expected Total Jobs from STE ³	Project Status
168	16-SM022	10/18/2016	EDCO Disposal Corporation	San Diego	San Diego	Recycled Feedstock	Mixed Recycling	\$ 10,000,000	\$ 842,000	\$	0%	\$ 47,049	\$ 961,499	\$ 166,542	45	5	Inactive
169	16-SM023	10/18/2016	EDCO Transport Services	Signal Hill	Los Angeles	Recycled Feedstock	Mixed Recycling	\$ 10,500,000	\$ 884,100	\$	0%	\$ 48,397	\$ 1,094,340	\$ 258,637	37	5	Inactive
170	17-SM012	2/21/2017	TAP Power LLC	Arcata	Humboldt	Alternative Source	Biomass Processing and Fuel Production	\$ 9,215,514	\$ 775,278	\$	0%	\$ 340,641	\$ 1,120,388	\$ 685,251	99	4	Inactive
Totals:							\$ 7,394,740,494	\$ 626,595,673	\$ 201,099,343	\$ 2,502,207,461.31	34%	\$158,952,430	\$1,061,214,730	\$365,266,750	43,337	2,623	

Applications Previously Considered and Denied

Application Number	Date of Board Consideration	Applicant Name	City	County	Project Type	Use of Proceeds	QP Amount	STE Amount (Anticipated) ¹	STE Amount Used	QP Amount Reported	% Conveyed	Estimated Environmental Benefit ²	Estimated Fiscal Benefit ²	Estimated Net Benefit ²	Expected Total Jobs ³	Expected Total Jobs from STE ³	Project Status
1	16-SM020	11/15/2016	Zanker Road Resource Management	San Jose	Santa Clara	Recycled Feedstock	Mixed Recycling	\$ 1,512,796	\$ 127,377	N/A	N/A	\$ 889	\$ 227,254	\$ 100,565	14	2	

¹ Under the Program the value of a specific project's sales and use tax exclusion is calculated using the statewide sales and use tax average. The statewide average was estimated at 9.1% through June 2011 and changed to 8.1% in July 2011, 8.37% in January 2013, 8.42% in March 2014, and 8.36% in January 2018.

² These benefits are estimates that are calculated under the Program's evaluation system at the time of Board approval. Applicants are required to provide annual reports to CAEATFA on actual project activity.

**APPENDIX B:
STE APPLICATIONS RECEIVED IN 2018**



Appendix B: Sales And Use Tax Exclusion Applications Received in 2018

	Date Received	Applicant Name	Project Location	Use of Proceeds	Qualified Property Amount	Estimated STE Amount	Status
1	01/15/18	Thermal Technology, LLC	Santa Rosa (Sonoma)	Additive Manufacturing	\$8,726,448.00	\$729,531.00	March
2	02/14/18	Siva Power, Inc.	Santa Clara (Santa Clara)	Solar Photovoltaic Manufacturing	\$6,746,508.00	\$564,008.00	April
3	02/14/18	Faraday&Future, Inc.	Hanford (Kings); Compton (Los Angeles); Gardena (Los Angeles)	Electric Vehicle Manufacturing	\$239,234,449.00	\$20,000,000.00	April
4	03/10/18	Tahoe Asphalt, Inc.	South Lake Tahoe	Asphalt Recycling	\$511,000.00	\$42,719.60	May
5	03/12/18	GB CNC Services, Inc.	Fountain Valley (Orange)	Turned Part Manufacturing	\$7,680,000.00	\$642,048.00	May
6	03/12/18	Peninsula Plastics Recycling, Inc.	Turlock (Stanislaus)	Plastic and Mixed Recycling	\$3,800,000.00	\$317,680.00	May
7	03/14/18	Chanje Energy, Inc.	El Segundo (Los Angeles)	Electric Vehicle Manufacturing	\$22,662,900.00	\$1,894,618.00	June
8	03/16/18	GreenWaste Recovery, Inc.	San Jose (Santa Clara)	Mixed Recycling and Organics	\$4,610,748.00	\$385,459.00	May
9	03/16/18	FirstElement Fuel, Inc.	Oakland (Alameda)	Fuel Grade Hydrogen Production	\$2,050,000.00	\$171,380.00	December
10	03/16/18	Space Exploration Technologies Corp.	Hawthorne (Los Angeles)	Aerospace Manufacturing	\$142,708,000.00	\$11,930,389.00	June
11	04/03/18	Zanker Road Resource Management, Ltd.	San Jose (Santa Clara)	Mixed Recycling	\$11,132,857.00	\$930,707.00	June
12	04/20/18	Taft Ammonia Company, LLC	Taft (Kern)	Fertilizer Production	\$116,288,221.00	\$9,721,695.00	Withdrawn
13	04/20/18	Revolution Plastics LLC	Salinas (Monterey)	Post-Consumer Resins Production	\$3,430,612.00	\$286,799.00	Withdrawn
14	04/20/18	WET	Sun Valley and Burbank (Los Angeles)	Water Feature Manufacturing	\$4,927,301.00	\$411,922.00	June
15	06/22/18	Eurostampa California, LLC	Napa (Napa)	Advanced Packaging Label Production	\$2,852,000.00	\$238,427.00	August
16	06/22/18	WIE-AGRON Bioenergy, LLC	Watsonville (Santa Cruz)	Biodiesel Production	\$7,685,000.00	\$642,466.00	August

Appendix B: Sales And Use Tax Exclusion Applications Received in 2018

	Date Received	Applicant Name	Project Location	Use of Proceeds	Qualified Property Amount	Estimated STE Amount	Status
17	07/11/18	The Almond Company	Madera (Madera)	Advanced Food Production	\$3,750,000.00	\$313,500.00	August
18	07/20/18	GreenWaste Recovery, Inc.	San Jose (Santa Clara)	Mixed Recycling and Organics	\$7,388,800.00	\$617,704.00	October - Amended Resolution
19	07/20/18	Katerra Construction LLC	Tracy (San Joaquin)	Multifamily Unit Building Component Manufacturing	\$54,590,000.00	\$4,563,724.00	September + Amended resolution November
20	07/23/18	Zanker Road Resource Management Ltd	San Jose (Santa Clara)	Concrete Recycling	\$1,028,483.00	\$85,981.00	Withdrawn
21	08/16/18	EDCO Disposal Corporation	Lemon Grove (San Diego)	Mixed Recycling	\$3,750,505.00	\$313,542.00	October
22	08/17/18	CalBioGas Kern LLC	Bakersfield (Kern)	Dairy Biogas Production	\$31,909,025.00	\$2,667,595.00	October
23	08/17/18	CalBioGas Hanford LLC	Hanford (Kings)	Dairy Biogas Production	\$20,515,336.00	\$1,715,082.00	October
24	08/17/18	CalBioGas West Visalia LLC	Tulare (Tulare)	Dairy Biogas Production	\$22,172,277.00	\$1,853,602.00	October
25	09/04/18	MSB Investors, LLC	Santa Barbara (Santa Barbara)	Mixed Recycling	\$44,661,209.00	\$3,733,677.00	November
26	09/14/18	Clerprem USA Corp	Sacramento (Sacramento)	Passenger Seating System Manufacturing	\$876,493.00	\$73,275.00	November
27	09/14/18	Niagara Bottling, LLC	Ontario (San Bernardino)	Water Bottling	\$70,220,748.00	\$5,870,455.00	November
28	09/14/18	Vivotein, LLC	Ontario (San Bernardino)	Animal Feed and Organic Fertilizer	\$6,745,050.00	\$563,886.00	November
29	09/14/18	Nate's Fine Foods, LLC	Roseville (Placer)	Advanced Food Production	\$5,886,000.00	\$492,070.00	November
30	09/27/18	Star Manu LLC	Ontario (San Bernardino)	Health and Beauty Products	\$2,721,986.00	\$235,918.00	November
31	10/19/18	UTCRA, LLC	Bakersfield (Kern)	Rail Transportation Manufacturing	\$4,900,000.00	\$401,364.00	December
32	10/19/18	California Safe Soil	McClellan (Sacramento)	Mixed Organics	\$3,750,000.00	\$313,500.00	Withdrawn
33	10/19/18	Aemetis Advanced Products Keyes, Inc.	Riverbank (Stanislaus)	Biomass Processing and Fuel Production	\$153,076,838.00	\$12,797,224.00	December

Appendix B: Sales And Use Tax Exclusion Applications Received in 2018

	Date Received	Applicant Name	Project Location	Use of Proceeds	Qualified Property Amount	Estimated STE Amount	Status
34	10/19/18	Drink, Inc.	Richmond (Contra Costa)	Beverage Bottling Manufacturing	\$3,636,029.00	\$303,972.00	December
35	11/28/18	Biogas Energy, Inc.	Roseville (Placer)	Biomass Processing and Fuel production	\$3,867,000.00	\$323,281.00	February
36	12/13/18	Verdeco Recycling	South Gate (Los Angeles)	Recycled PET Food Packaging	\$11,932,550.00	\$997,561.00	February
37	12/19/18	Watonga RNG 1 LLC	San Diego (San Diego)	Biogas Capture and Production	\$5,500,000.00	\$459,800.00	February
38	12/20/18	Sanitation Districts of Los Angeles County	Whittier (Los Angeles)	Mixed Recycling	\$15,212,303.00	\$1,271,749.00	February
39	12/21/18	CR&R Incorporated	Perris and Lakeview	Mixed Paper and Mixed Organics	\$5,130,235.00	\$428,888.00	February
40	12/21/18	Intuitive Surgical Operations, Inc.	Sunnyvale (Santa Clara)	Advanced Robotic Surgical Systems and Tools	\$96,875,430.00	\$8,098,786.00	February
<u>TOTAL</u>					<u>\$1,165,142,341.00</u>	<u>\$97,405,984.60</u>	

**APPENDIX C:
CHEEF BUDGET AUTHORIZATION**



Appendix C: CHEEF Budget Authorization

D.13-09-044 directs the IOUs to allocate a total of \$75.2 million to finance the programs over the initial period. The table below provides an itemized breakdown of these allocations from September 2014 through December 2018¹⁴. CAEATFA management continued to engage in the budgetary process, obtaining legislative approval in the 2018 Budget Act to extend budgetary reimbursement and expenditure authority into fiscal year 2020-2021.

CAEATFA will be seeking additional funding for program implementation beyond 2020 to align with the current program implementation timetable.

Item	Allocated	Expended/ Encumbered ¹⁵	Balance
CHEEF Administration			
Includes Start-Up costs, CHEEF administrative, direct implementation, and contracting costs ¹⁶	\$ 13,360,000	\$ 6,700,323	\$ 6,659,677
Subtotal CHEEF Start-Up Costs	\$ 13,360,000	\$ 6,700,323	\$ 6,659,677
Marketing, Education, Outreach (MEO)			
Statewide MEO plan	\$ 8,000,000	(TBD)	\$ 8,000,000
CAEATFA outreach and training to finance companies and contractors	\$ 2,000,000	\$ 775,663	\$ 1,224,337
Subtotal Marketing, Education, and Outreach	\$ 10,000,000	\$ 775,663	\$ 9,224,337
Residential Pilots Credit Enhancement Funds¹⁶			
Residential Energy Efficiency Loan (REEL)	\$ 25,000,000	\$ 768,899	\$ 24,231,101
Energy Financing Line Item Charge (Funding to PG&E)	\$ 1,000,000	(TBD)	\$ 1,000,000
Affordable Multifamily	\$ 2,900,000	-	\$ 2,900,000
Subtotal Residential Pilots	\$ 28,900,000	\$ 768,899	\$ 28,131,101
Non-Residential Pilots Credit Enhancement Funds			
Small Business sector with credit enhancement	\$ 14,000,000	-	\$ 14,000,000
Subtotal Non-Residential Pilots	\$ 14,000,000	-	\$ 14,000,000
Information Technology (IT)			
IT Funding to IOUs ¹⁷	\$ 8,000,000	(TBD)	\$ 8,000,000
Subtotal IT Funding to IOUs	\$ 8,000,000	(TBD)	\$ 8,000,000
CHEEF Pilot Reserve			
CHEEF Pilot Reserve ¹⁸	\$ 984,931	-	\$ 984,931
Subtotal CHEEF Pilot Reserve	\$ 984,931	-	\$ 984,931
GRAND TOTAL	\$ 75,244,931	\$ 8,244,885	\$ 67,000,046

¹⁴ This table is not a comprehensive representation of the budget. It does not reflect CSE's expenditures related to ME&O, the IOUs' expenditures and additional allocations for IT and administration, or other non-CAEATFA costs.

¹⁵ "Encumbered" refers to the credit enhancement funds reserved for enrolled loans under the Residential Energy Efficiency Loan (REEL) Loan Loss Reserve (LLR).

¹⁶ Amount of funds allocated to this section includes the additional \$8.36 million that was approved by CPUC Rulemaking 13-11-005: Joint Ruling of Assigned Commissioner and Administrative Law Judge on Financing Pilots and Associated Marketing, Education and Outreach Activities issued November 22, 2016.

¹⁷ IT funding to IOUs reports only the initial allocation and does not reflect current IOU expenditures.

¹⁸ This amount reflects the remaining balance after the release of funds that was approved by CPUC Rulemaking 13-11-005: Joint Ruling of Assigned Commissioner and Administrative Law Judge on Financing Pilots and Associated Marketing, Education and Outreach Activities issued November 22, 2016.

¹⁶ Actual credit enhancement dollars available less funds for operations setup by IOUs.

**APPENDIX D:
PACE LOSS RESERVE PROGRAM
ENROLLMENT ACTIVITY THROUGH 2018**



Appendix D: PACE Loss Reserve Program Enrollment Activity through 2018

PACE LOSS RESERVE PROGRAM ENROLLMENT ACTIVITY TO DATE

Year	Program	New Financings		Actual Total		New Financings		Estimated Total	
		January 1st – June 30th		Outstanding Portfolio Through June 30th*		July 1st – December 31st		Enrolled Portfolio Through December 31st*	
2014	1 mPOWER Placer			464	\$10,502,382.62	312	\$9,540,534.04	776	\$20,042,916.66
	2 mPOWER Folsom			3	\$54,181.18	4	\$86,847.90	7	\$141,029.08
	3 Berkeley FIRST**			13	\$299,233.74	-	\$0.00	13	\$299,233.74
	4 CaliforniaFIRST			-	\$0.00	151	\$3,435,462.04	151	\$3,435,462.04
	5 Sonoma County			1,550	\$43,702,974.25	65	\$1,524,472.34	1,615	\$45,227,446.59
	6 WRCOG HERO			9,911	\$189,339,784.00	1,757	\$34,971,957.65	11,668	\$224,311,741.65
	7 SANBAG HERO			4,286	\$80,398,364.90	1,763	\$32,056,560.00	6,049	\$112,454,924.90
	8 California HERO			1,174	\$25,974,938.48	2,970	\$67,054,570.85	4,144	\$93,029,509.33
	Total:			17,401	\$350,271,859.17	7,022	\$148,670,404.82	24,423	\$498,942,263.99
2015	1 mPOWER Placer	313	\$9,007,272.29	878	\$44,537,362.74	361	\$10,422,668.14	1,239	\$54,960,030.88
	2 mPOWER Folsom	12	\$358,423.79	19	\$858,358.59	10	\$229,578.67	29	\$1,087,937.26
	3 Berkeley FIRST	-	\$0.00	12	\$272,231.98	-	\$0.00	12	\$272,231.98
	4 CaliforniaFIRST	1,044	\$23,904,858.49	1,195	\$27,195,540.14	2,231	\$55,875,048.47	3,426	\$83,070,588.61
	5 Sonoma County	67	\$1,659,819.77	1,475	\$41,157,542.98	46	\$1,288,617.74	1,521	\$42,446,160.72
	6 WRCOG HERO	1,535	\$33,837,187.89	12,795	\$252,378,022.05	2,361	\$53,783,476.55	15,156	\$306,161,498.60
	7 SANBAG HERO	3,968	\$80,548,862.92	7,602	\$143,822,030.98	2,550	\$54,760,955.71	10,152	\$198,582,986.69
	8 California HERO	6,035	\$138,783,046.73	10,326	\$240,306,305.35	8,032	\$191,433,540.91	18,358	\$431,739,846.26
	9 AllianceNRG					1	\$25,474.99	1	\$25,474.99
	10 CaliforniaFIRST (LA)					282	\$8,663,915.65	282	\$8,663,915.65
	11 LA HERO					5,050	\$126,779,290.63	5,050	\$126,779,290.63
	12 Ygrene					2,281	\$50,669,809.81	2,281	\$50,669,809.81
	Total:	12,974	\$288,099,471.88	34,302	\$750,527,394.81	23,205	\$553,932,377.27	57,507	\$1,304,459,772.08
2016	1 mPOWER Placer	311	\$9,312,194.68	1,493	\$44,558,408.98	252	\$8,194,751.80	1,745	\$52,753,160.78
	2 mPOWER Folsom	26	\$713,934.71	54	\$732,306.69	9	\$187,784.35	63	\$920,091.04
	3 Berkeley FIRST	-	\$0.00	11	\$246,745.00	-	\$0.00	11	\$246,745.00
	4 CaliforniaFIRST	3,531	\$90,107,437.45	6,957	\$169,216,761.62	3,907	\$110,192,499.48	10,864	\$279,409,261.10
	5 Sonoma County	51	\$1,776,171.84	1,378	\$38,507,299.21	50	\$1,415,174.67	1,428	\$39,922,473.88
	6 WRCOG HERO	2,222	\$46,649,263.50	15,624	\$320,840,795.46	2,393	\$49,380,509.74	18,017	\$370,221,305.20
	7 SANBAG HERO	2,289	\$46,363,907.06	11,518	\$227,139,077.08	2,584	\$51,629,199.72	14,102	\$278,768,276.80
	8 California HERO	8,533	\$183,279,942.82	25,306	\$574,336,722.18	10,899	\$232,821,239.40	36,205	\$807,157,961.58
	9 AllianceNRG	2	\$95,960.41	3	\$121,435.40	-	\$0.00	3	\$121,435.40
	10 CaliforniaFIRST (LA)	1,088	\$32,228,028.12	1,451	\$43,224,206.38	1,877	\$64,646,218.07	3,328	\$107,870,424.45
	11 LA HERO	6,529	\$166,552,162.84	10,032	\$252,287,718.07	5,721	\$150,665,091.33	15,753	\$402,952,809.40
	12 Ygrene	8,152	\$189,939,247.42	10,068	\$232,048,888.23	6,176	\$148,659,905.36	16,244	\$380,708,793.59
	13 PACEFunding	9	\$251,239.75	9	\$251,239.75	121	\$4,036,153.52	130	\$4,287,393.27
	14 CMFA PACE					47	\$2,533,503.48	47	\$2,533,503.48
	Total:	32,743	\$767,269,490.60	83,904	\$1,903,511,604.05	34,036	\$824,362,030.92	117,940	\$2,727,873,634.97
2017	1 mPOWER Placer	184	\$5,631,524.68	1,683	\$51,611,437.71	183	\$5,498,466.65	1,866	\$57,109,904.36
	2 mPOWER Folsom	9	\$229,668.63	71	\$1,811,317.39	8	\$237,161.37	79	\$2,048,478.76
	3 Berkeley FIRST	-	\$0.00	11	\$246,745.00	-	\$0.00	11	\$246,745.00
	4 CaliforniaFIRST	3,273	\$91,144,466.34	12,216	\$323,675,795.73	3,769	\$105,445,216.29	15,985	\$429,121,012.02
	5 Sonoma County	39	\$934,951.16	1,206	\$28,137,490.97	32	\$900,375.11	1,238	\$29,037,866.08
	6 WRCOG HERO	1,686	\$36,735,663.92	15,449	\$301,692,765.95	1,797	\$40,821,119.58	17,246	\$342,513,885.53
	7 SANBAG HERO	1,738	\$35,304,161.93	12,738	\$243,396,646.88	580	\$12,256,787.69	13,318	\$255,653,434.57
	8 California HERO	8,276	\$177,688,563.47	33,652	\$729,747,735.40	7,776	\$184,293,420.37	41,428	\$914,041,155.77
	9 AllianceNRG	69	\$2,260,800.21	72	\$2,478,196.22	32	\$1,122,030.42	104	\$3,600,226.64
	10 CaliforniaFIRST (LA)	1,574	\$54,207,538.45	4,485	\$148,223,916.66	1,190	\$39,148,949.43	5,675	\$187,372,866.09
	11 LA HERO	3,767	\$102,176,910.54	18,045	\$466,401,044.72	3,172	\$87,588,394.76	21,217	\$553,989,439.48
	12 Ygrene	4,745	\$114,651,498.88	19,490	\$460,975,116.00	4,787	\$135,120,402.68	24,277	\$596,095,518.68
	13 PACEFunding	196	\$5,916,311.47	327	\$10,203,704.70	352	\$10,245,084.69	679	\$20,448,789.39
	14 CMFA PACE	294	\$9,754,686.31	341	\$12,287,902.02	908	\$29,753,963.38	1,249	\$42,041,865.40
	15 CSCDA HERO					1,025	\$21,147,951.97	1,025	\$21,147,951.97
	16 Figtree PACE					Not Available***		Not Available***	
	17 Spruce PACE					12	\$357,431.78	12	\$357,431.78
	18 mPower Pioneer					41	\$1,265,377.60	41	\$1,265,377.60
	Total:	25,850	\$636,636,745.99	119,786	\$2,780,889,815.35	25,664	\$675,202,133.77	145,450	\$3,456,091,949.12

* The total enrolled portfolio through December 31st is an estimate because the numbers do not take into account any payments made since July 1st.

PACE Programs report the actual outstanding portfolio value through June 30th each year.

** Berkeley FIRST is a pilot program that is no longer accepting new applications.

*** Figtree PACE's report is currently outstanding.